

CONSTRUCTION PLANS FOR VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY DANVILLE, ILLINOIS

**IL. PROJ. NO. DNV-4229
SBG PROJ. NO. 3-17-0032-B14**

RELOCATE TAXIWAY C AND WIDEN FILLETS

MARCH 1, 2013

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
AR108158	1/2 #8 5 KV UG CABLE IN UD	LF	3515
AR110102	DUCT MARKER - IN PAVEMENT	EA	4
AR110502	2-WAY CONCRETE ENCASED DUCT	LF	60
AR110550	SPLIT DUCT	LF	23
AR125410	MILT-STAKE MOUNTED	EA	22
AR125415	MILT-BASE MOUNTED	EA	6
AR125442	TAXI GUIDANCE SIGN, 2 CHARACTER	EA	1
AR125445	TAXI GUIDANCE SIGN, 5 CHARACTER	EA	1
AR125901	REMOVE STAKE MOUNTED LIGHT	EA	22
AR125902	REMOVE BASE MOUNTED LIGHT	EA	2
AR125904	REMOVE TAXI GUIDANCE SIGN	EA	2
AR150510	ENGINEERS FIELD OFFICE	LS	1
AR150520	MOBILIZATION	LS	1
AR152410	UNCLASSIFIED EXCAVATION	CY	3996
AR156510	SILT FENCE	LF	1846
AR156520	INLET PROTECTION	EA	2
AR209612	CRUSHED A.G.G. BASE COURSE - 12"	SY	4732
AR401610	BITUMINOUS SURFACE COURSE	TON	785
AR401900	REMOVE BITUMINOUS PAVEMENT	SY	2644
AR403610	BITUMINOUS BASE COURSE	TON	1075
AR602510	BITUMINOUS PRIME COAT	GAL	2366
AR603510	BITUMINOUS TACK COAT	GAL	2064
AR620520	PAVEMENT MARKING - WATERBORNE	SF	10606
AR620525	PAVEMENT MARKING - BLACK BORDER	SF	2560
AR620900	PAVEMENT MARKING REM OVAL	SF	274
AR701518	18" RCP, CLASS IV	LF	44
AR705524	4" PERFORATED UNDERDRAIN W/SOCK	LF	898
AR705544	4" NON PERFORATED UNDERDRAIN	LF	58
AR705635	UNDERDRAIN COLLECTION STRUCTURE	EA	2
AR705640	UNDERDRAIN CLEANOUT	EA	3
AR751416	TYPE I INLET	EA	2
AR751903	REMOVE MANHOLE	EA	1
AR800354	EROSION CONTROL RING	EA	28
AR901510	SEEDING	AC	4
AR904510	SODDING	SY	1417
AR908510	MULCHING	AC	4
AR908520	EXCELSIOR BLANKET	SY	500

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811 Know what's below. Call before you dig.
J.U.L.I.E. JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
www.illinois1call.com

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH UTILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED, IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION AND THE ONE CALL NOTICE SYSTEM. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH UTILITY OR SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811.

DESIGN INFORMATION

GEOMETRIC CRITERIA

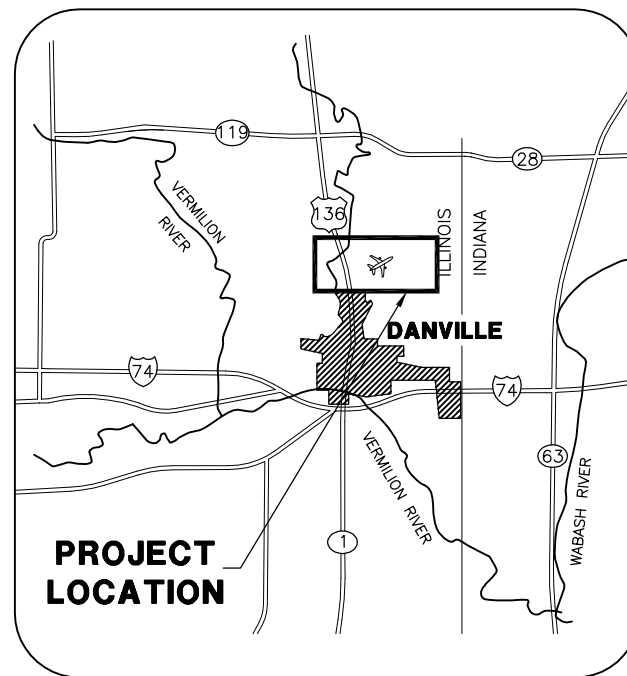
TAXIWAY DESIGN GROUP III
AIRCRAFT APPROACH CATEGORY C
WHEELBASE OF 42' 10"
MAIN GEAR WIDTH OF 15' 4"

PAVEMENT DESIGN CRITERIA

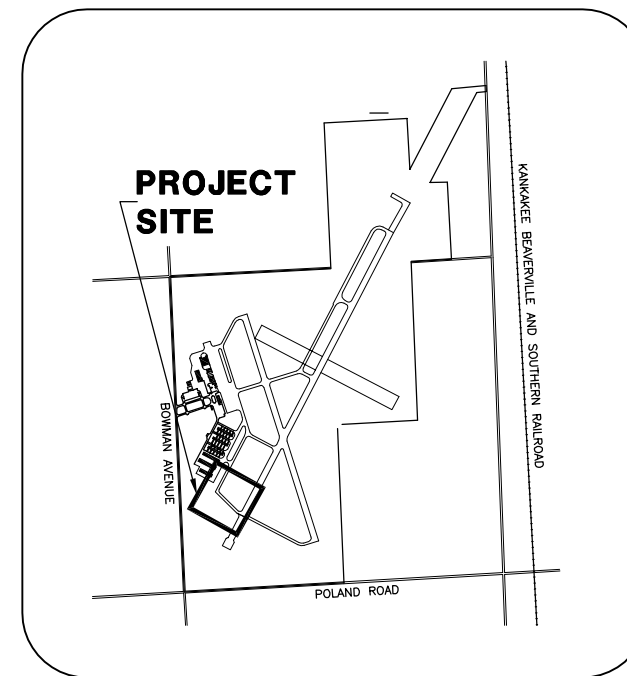
DEPARTURE WEIGHT = 99,500 LBS.
DUAL GEAR

CALL J.U.L.I.E.
BEFORE EXCAVATING
1-800-892-0123

TOWNSHIP: 20 NORTH
RANGE: 11 WEST
SECTION: 15
COUNTY: VERMILION
CIVIL TOWNSHIP:



LOCATION MAP



SITE PLAN



MAXIMUM EQUIPMENT HEIGHT - 25'
UNICOM FREQUENCY - 122.70

VERMILION REGIONAL AIRPORT AUTHORITY
VERMILION REGIONAL AIRPORT
DANVILLE, ILLINOIS

APPROVED: *[Signature]*
EXECUTIVE DIRECTOR OF AVIATION
DATE: 3-17-2013

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO

SUBMITTED BY: *[Signature]*
DATE: 3-6-13

CMT JOB NUMBER: 120420100

CONTRACTOR'S CONTROL POINTS

POINT	OBJECT	NORTHING	EASTING	ELEVATION
1	SURVEY PLATE	1285362.984	1189401.941	648.340
2	SURVEY PLATE	1286989.223	1189984.300	660.480
3	IRON PIN	1286635.834	1189928.872	660.690

BASELINE INFORMATION

BASELINE	STATION	NORTHING	EASTING
TXY C	25+00	1286261.400	1189062.455
RUNWAY 3/21	341+00	1285258.997	1189173.219

CRITICAL POINTS

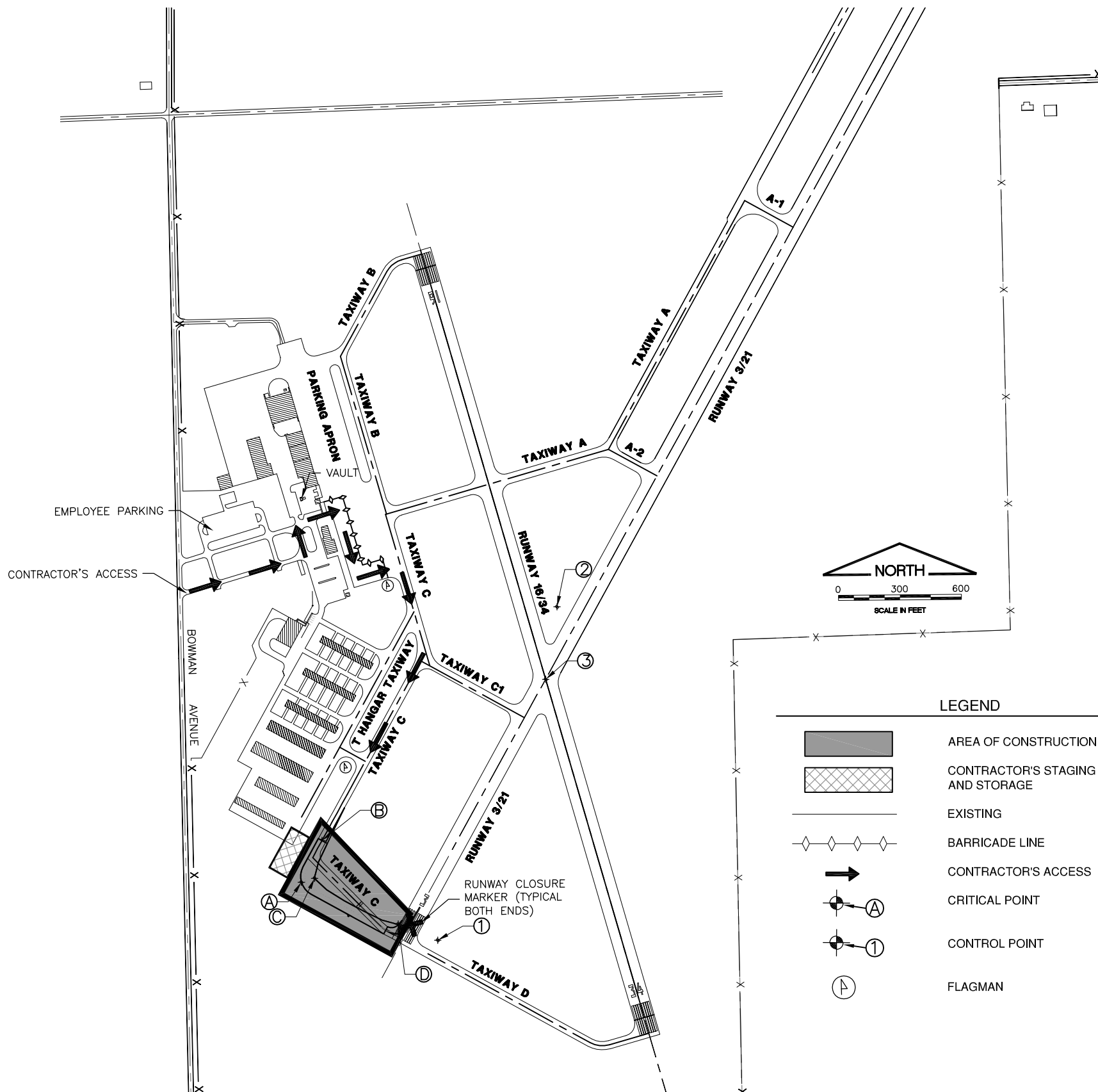
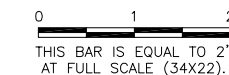
POINT	NORTHING	EASTING	LATITUDE	LONGITUDE	GROUND ELEVATION	MAX. EQUIP. HEIGHT	OVERALL ELEVATION
A	1285646.020	1188736.450	40°11'40.60"	87°36'04.87"	651.05	25'	676.05
B	1285849.189	1188836.779	40°11'42.60"	87°36'05.55"	652.42	25'	677.42
C	1285664.979	1188800.927	40°11'40.78"	87°36'04.04"	650.18	25'	675.18
D	1285441.260	1189209.065	40°11'38.54"	87°35'58.80"	650.71	25'	675.71

UNICOM FREQUENCY - 122.70

FILE: SITE.dwg
 UPDATE BY: Andrew Bodine
 PLOT DATE: 3/6/2013 2:18 PM
 BASE PROP.GEO
 DNVBase_StatePlane

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NUMBER	BY	DATE



LEGEND

	AREA OF CONSTRUCTION
	CONTRACTOR'S STAGING AND STORAGE
	EXISTING
	BARRICADE LINE
	CONTRACTOR'S ACCESS
	CRITICAL POINT
	CONTROL POINT
	FLAGMAN

GENERAL NOTES

- ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN.
- WHEN CONFLICTS ARISE BETWEEN CONSTRUCTION ACTIVITIES AND AIRCRAFT OPERATIONS AND SAFETY, AIRCRAFT OPERATIONS AND SAFETY SHALL TAKE PRECEDENCE AND SHALL GOVERN. FINAL AUTHORITY IN THE APPROVAL OF CONSTRUCTION SEQUENCING LIES WITH THE AIRPORT.
- THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS AT THE LOCATIONS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN. THE MAXIMUM HEIGHT OF EQUIPMENT, MATERIALS AND STOCKPILES SHALL BE 25' ABOVE GROUND ELEVATION. AT NO POINT SHALL EQUIPMENT OR MATERIALS BE ALLOWED TO BE STORED ON RUNWAYS.
- MEN, VEHICLES AND EQUIPMENT WILL NOT BE ALLOWED WITHIN THE FOLLOWING AREAS:
 - 250' FROM THE CENTERLINE OF RUNWAY 3/21 WHEN ACTIVE.
 - 59' FROM THE CENTERLINE OF AN ACTIVE TAXIWAY.
- ALL CONSTRUCTION TRAFFIC OPERATING ON OR CROSSING A TAXIWAY OR RUNWAY OPEN TO AIRCRAFT TRAFFIC SHALL BE UNDER CONTROL BY AN ESCORT OR A FLAGMAN IN RADIO CONTACT WITH AIR AND GROUND TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE THE FLAGMAN AND RADIO EQUIPMENT UNDER THE TRAFFIC MAINTENANCE PAY ITEM.
- ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT. NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR FOR THIS WORK.
- EXISTING TURF AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUSLY CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES ACCESSING THE WORK OR DEPARTING THE WORK IMMEDIATELY FOLLOWING SAID VEHICLE.
- IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS SO AS TO AVOID ANY DAMAGE. ANY UTILITY, INCLUDING AIRFIELD ELECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD LIGHTING CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR.
- CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
 - THE CONTRACTOR'S ACCESS TO WORK SHALL BE AS SHOWN IN THE PLANS.
 - THE CONTRACTOR SHALL MAINTAIN A COMPLETE LIST OF PERSONNEL AUTHORIZED BY THE CONTRACTOR TO WORK ON THE AIRFIELD. THIS LIST SHALL BE PROVIDED TO THE AIRPORT AND RESIDENT ENGINEER BY THE CONTRACTOR UPON REQUEST.
 - THE CONTRACTOR SHALL USE AN EXISTING GATE(S) FOR ACCESS TO THE AIRFIELD. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A HEAVY-DUTY PADLOCK ON THE ACCESS GATE. HE SHALL PROVIDE KEYS FOR HIS PADLOCK TO THE RESIDENT ENGINEER AND VRAA MAINTENANCE SUPERVISOR. NO ADDITIONAL KEYS ARE TO BE DISTRIBUTED UNLESS AUTHORIZED BY THE AIRPORT.
 - CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE PUBLIC ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL REQUIREMENTS, LOAD RESTRICTIONS, & TRAFFIC CONTROL SIGNAGE REQUIRED BY THE CITY, COUNTY, TOWNSHIP, OR I.D.O.T.
 - DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF THE CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK SITE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ACCESS GATE(S) CLOSED DURING WORK HOURS.
 - THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE(S) UPON LEAVING THE SITE.
 - ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A WAY AS NOT TO VIOLATE AIRPORT PART 77 SURFACES, OR RUNWAY AND TAXIWAY SAFETY AREAS.

VERMILION REGIONAL AIRPORT
VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS
RELOCATE TAXIWAY C AND WIDEN FILLETS
SITE PLAN

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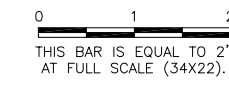
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SHEET	02 OF 27 SHEETS

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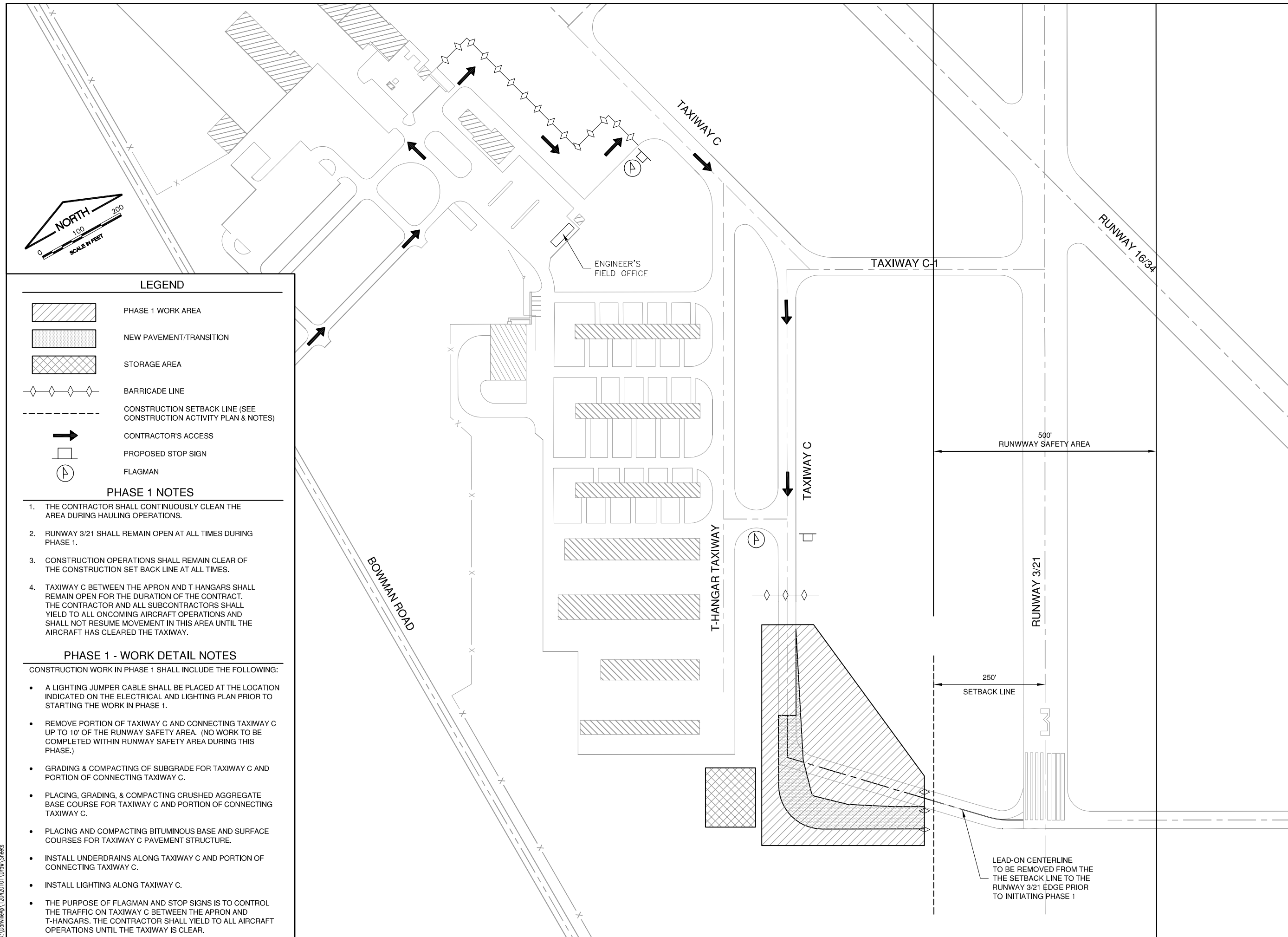


**VERMILION REGIONAL AIRPORT
 VERMILION REGIONAL AIRPORT AUTHORITY
 DANVILLE, ILLINOIS**

**RELOCATE TAXIWAY C AND WIDEN FILLETS
 CONSTRUCTION ACTIVITY PLAN 1**

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SHEET	03 OF 27 SHEETS



LEGEND

- PHASE 1 WORK AREA
- NEW PAVEMENT/TRANSITION
- STORAGE AREA
- BARRICADE LINE
- CONSTRUCTION SETBACK LINE (SEE CONSTRUCTION ACTIVITY PLAN & NOTES)
- CONTRACTOR'S ACCESS
- PROPOSED STOP SIGN
- FLAGMAN

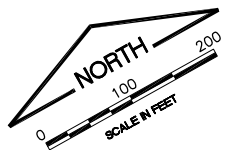
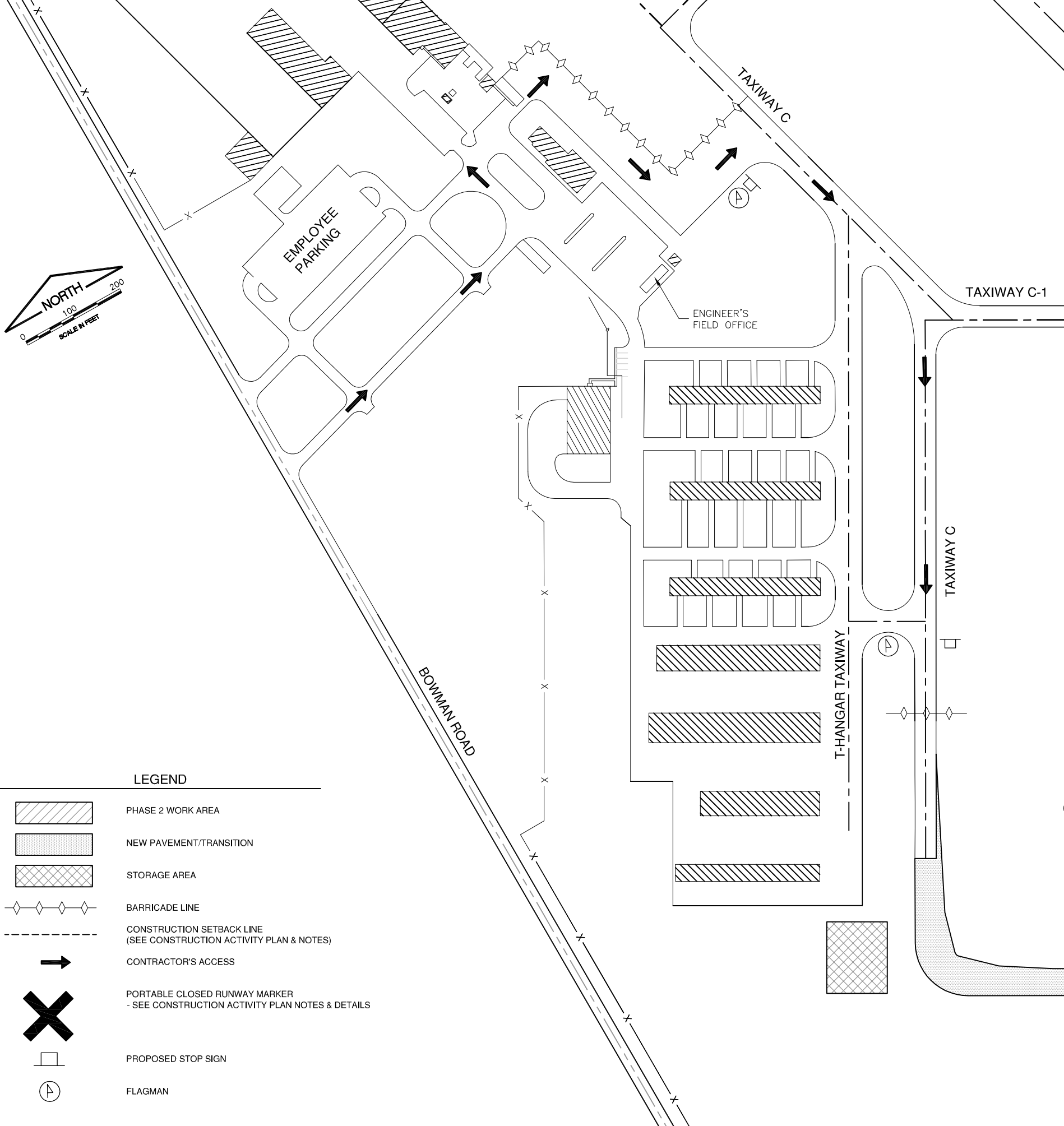
PHASE 1 NOTES

1. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN THE AREA DURING HAULING OPERATIONS.
2. RUNWAY 3/21 SHALL REMAIN OPEN AT ALL TIMES DURING PHASE 1.
3. CONSTRUCTION OPERATIONS SHALL REMAIN CLEAR OF THE CONSTRUCTION SET BACK LINE AT ALL TIMES.
4. TAXIWAY C BETWEEN THE APRON AND T-HANGARS SHALL REMAIN OPEN FOR THE DURATION OF THE CONTRACT. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL YIELD TO ALL ONCOMING AIRCRAFT OPERATIONS AND SHALL NOT RESUME MOVEMENT IN THIS AREA UNTIL THE AIRCRAFT HAS CLEARED THE TAXIWAY.

PHASE 1 - WORK DETAIL NOTES

- CONSTRUCTION WORK IN PHASE 1 SHALL INCLUDE THE FOLLOWING:
- A LIGHTING JUMPER CABLE SHALL BE PLACED AT THE LOCATION INDICATED ON THE ELECTRICAL AND LIGHTING PLAN PRIOR TO STARTING THE WORK IN PHASE 1.
 - REMOVE PORTION OF TAXIWAY C AND CONNECTING TAXIWAY C UP TO 10' OF THE RUNWAY SAFETY AREA. (NO WORK TO BE COMPLETED WITHIN RUNWAY SAFETY AREA DURING THIS PHASE.)
 - GRADING & COMPACTING OF SUBGRADE FOR TAXIWAY C AND PORTION OF CONNECTING TAXIWAY C.
 - PLACING, GRADING, & COMPACTING CRUSHED AGGREGATE BASE COURSE FOR TAXIWAY C AND PORTION OF CONNECTING TAXIWAY C.
 - PLACING AND COMPACTING BITUMINOUS BASE AND SURFACE COURSES FOR TAXIWAY C PAVEMENT STRUCTURE.
 - INSTALL UNDERDRAINS ALONG TAXIWAY C AND PORTION OF CONNECTING TAXIWAY C.
 - INSTALL LIGHTING ALONG TAXIWAY C.
 - THE PURPOSE OF FLAGMAN AND STOP SIGNS IS TO CONTROL THE TRAFFIC ON TAXIWAY C BETWEEN THE APRON AND T-HANGARS. THE CONTRACTOR SHALL YIELD TO ALL AIRCRAFT OPERATIONS UNTIL THE TAXIWAY IS CLEAR.

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LEGEND

- PHASE 2 WORK AREA
- NEW PAVEMENT/TRANSITION
- STORAGE AREA
- BARRICADE LINE
- CONSTRUCTION SETBACK LINE
(SEE CONSTRUCTION ACTIVITY PLAN & NOTES)
- CONTRACTOR'S ACCESS
- PORTABLE CLOSED RUNWAY MARKER
- SEE CONSTRUCTION ACTIVITY PLAN NOTES & DETAILS
- PROPOSED STOP SIGN
- FLAGMAN

PHASE 2 NOTES

1. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN THE AREA DURING HAULING OPERATIONS.
2. RUNWAY 3/21 SHALL BE CLOSED FOR THE DURATION OF THIS PHASE. WORK IN THIS PHASE SHALL BE EXPEDITED SO AS TO REDUCE THE RUNWAY CLOSURE TIME.
3. AFTER THE COMPLETION OF ALL PAVING OPERATIONS, THE RUNWAY SHALL BE REOPENED. ALL ADDITIONAL WORK WITHIN THE 250' WIDE RUNWAY SAFETY AREA SHALL BE COMPLETED DURING A TEMPORARY CLOSURE AS COORDINATED WITH THE AIRPORT.
4. THE CONTRACTOR SHALL PLACE ALL BARRICADES AS SHOWN PRIOR TO STARTING WORK ON THIS PHASE.
5. THE AIRPORT WILL REQUIRE A 7 CALENDAR DAY NOTICE FROM THE CONTRACTOR PRIOR TO INITIATING THIS PHASE.
6. THE IMPACTS OF THIS PHASE MERIT ADDITIONAL CONSIDERATION FROM THE CONTRACTOR WHEN SCHEDULING THE WORK IN THIS PHASE. AS A RESULT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE SUFFICIENT PERSONNEL AND EQUIPMENT AND WORK SUFFICIENT HOURS TO COMPLETE THE PHASE 2 WORK IN THE FOLLOWING PARAMETERS:
 - THE CONTRACTOR WILL BE ALLOWED TO CLOSE RUNWAY 3/21 FOR 14 CONSECUTIVE CALENDAR DAYS TO COMPLETE ALL WORK WITHIN THE PHASE 2 WORK AREA.
7. THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE AIRPORT TO SCHEDULE THE ABOVE REFERENCED CLOSURE. ITEMS SUCH AS THE EXTENDED WEATHER FORECAST, MATERIAL AVAILABILITY, EQUIPMENT DEPENDABILITY, & MANPOWER AVAILABILITY SHALL BE DISCUSSED PRIOR TO SCHEDULING THE CRITICAL CLOSURE. THE AIRPORT AND THE CONTRACTOR SHALL MUTUALLY AGREE ON THE ACTUAL DAYS FOR THE CLOSURE IF LESS THAN TIME STATED IN NOTE 8.
8. THE CONTRACTOR MAY WORK IN THE PHASE 1 WORK AREA DURING THIS PHASE PROVIDED THAT IT DOES NOT IMPACT THE PROGRESS OF THE PHASE 2 WORK.
9. PLACING BITUMINOUS BASE COURSE AND SURFACE COURSE FOR BOTH PHASES 1 AND 2 MAY BE COMPLETED JOINTLY PROVIDED THAT THE WORK IN THE PHASE 2 WORK AREA DOES NOT EXCEED THE TIME STATED IN NOTE 6.
10. THE CONTRACTOR SHALL PROTECT THE FAA VASI AND REILS PRIOR TO STARTING ANY OTHER WORK IN PHASE 2

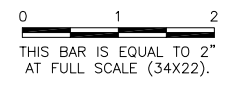
PHASE 2 - WORK DETAIL NOTES

- CONSTRUCTION WORK IN PHASE 2 SHALL INCLUDE THE FOLLOWING:
- REMOVAL OF REMAINING CONNECTING TAXIWAY C.
 - GRADING AND COMPACTING CONNECTING TAXIWAY C SUBGRADE.
 - PLACING, GRADING AND COMPACTING CRUSHED AGGREGATE BASE FOR CONNECTING TAXIWAY C.
 - PLACING AND COMPACTING BITUMINOUS BASE AND SURFACE COURSES FOR CONNECTING TAXIWAY C PAVEMENT STRUCTURE.
 - INSTALL UNDERDRAIN ALONG CONNECTING TAXIWAY C.
 - INSTALL LIGHTS AND CABLE FOR EDGE LIGHTING SYSTEM.
 - INSTALL AIRFIELD SIGNAGE.
 - NEW AIRFIELD PAVEMENT MARKING.
 - NEW GRADING AND TURFING.
 - EXISTING DUCT BANK EXTENSION AND INSTALL NEW DUCT BANK.

FILE: CONACT02.dwg
 UPDATE BY: Andrew Bodine
 PLOT DATE: 3/6/2013 2:19 PM
 DNVBase_StatePlane
 BASE PROP.GEO

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VERMILION REGIONAL AIRPORT
VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

RELOCATE TAXIWAY C AND WIDEN FILLETS
CONSTRUCTION ACTIVITY PLAN 2

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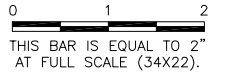
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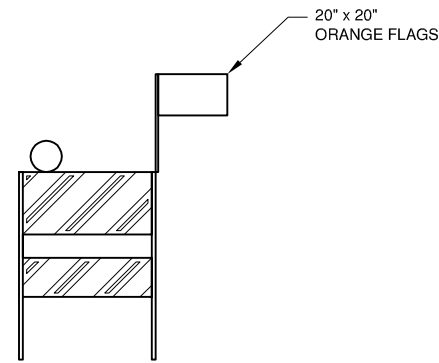


GENERAL NOTES

1. ALL CONSTRUCTION BARRICADES SHALL BE IN PLACE PRIOR TO INITIATING EACH PHASE.
2. THE CONTRACTOR SHALL GIVE THE AIRPORT A MINIMUM 7 DAYS NOTIFICATION PRIOR TO THE INITIATION OF WORK IN EACH PHASE.
3. THE CONTRACTOR SHALL MAINTAIN ALL MINIMUM DISTANCES SHOWN IN THE CONSTRUCTION ACTIVITY PLANS OR AS REQUIRED FOR THE CRITICAL OPERATING AIRCRAFT THROUGH THESE AREAS.
4. ALL COSTS TO FURNISH, INSTALL, AND MAINTAIN THE CONSTRUCTION SET BACK LINE SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND WILL NOT BE MEASURED FOR PAYMENT.
5. ALL PAVEMENTS OR TURF AREAS UTILIZED BY THE CONTRACTOR FOR AN ACCESS ROUTE, STAGING, OR STORAGE SHALL BE REPAIRED AND RESTORED TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE AIRPORT. NO ADDITIONAL COMPENSATION TO PROTECT, REPAIR, OR RESTORE THESE AREAS SHALL BE MADE.

PORTABLE CLOSED RUNWAY MARKER NOTES

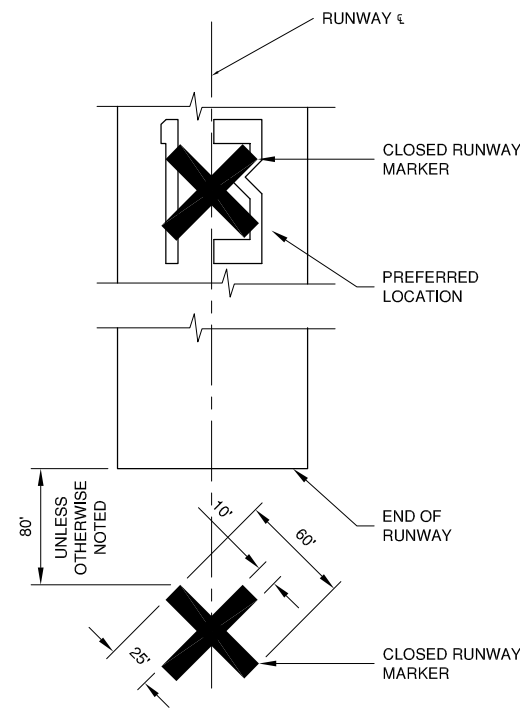
1. THE AIRPORT WILL PROVIDE PORTABLE LIGHTED CLOSURE MARKERS FOR THE CONTRACTOR'S USE.
2. THE CONTRACTOR WILL BE REQUIRED TO TOW AND SET UP THE MARKERS AT THE ENDS OF THE RUNWAY WHEN RUNWAY CLOSURES ARE REQUIRED.
3. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE REPLACEMENT BULBS, FUEL, LUBRICANTS, AND DAILY/PERIODIC MAINTENANCE INSPECTIONS AS REQUIRED BY THE AIRPORT.
4. THE AIRPORT WILL PERFORM PERIODIC MAINTENANCE, PROVIDE REPLACEMENT PARTS AND PERFORM REPAIRS AS REQUIRED TO KEEP THE EQUIPMENT OPERATIONAL.
5. THE COST OF SET-UP, FUELING, BULBS, INSPECTION, AND REMOVAL OF THE MARKERS SHALL BE INCIDENTAL TO THE CONTRACT.
6. MARKERS SHALL BE PLACED OVER EXISTING RUNWAY NUMERALS. HOWEVER, WHEN WORK IS NECESSARY FOR THAT AREA OR PAVEMENT IS OPEN TO TAXIING AIRCRAFT, THE MARKERS SHALL BE RELOCATED OFF THE PAVEMENT AS SHOWN ON THE DETAIL.
7. UPON COMPLETION OF THE RUNWAY CLOSURE, THE CONTRACTOR WILL BE REQUIRED TO TAKE DOWN & RETURN THE MARKERS TO THEIR STORAGE LOCATION.



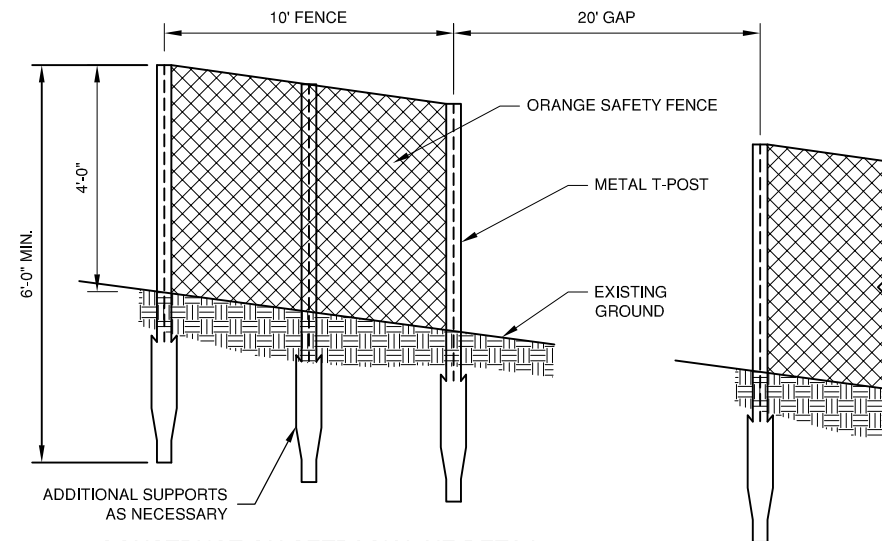
FLASHER BARRICADE DETAIL-IDOT TYPE 1
 N.T.S.

FLASHER BARRICADE NOTES

1. FLASHERS TO BE BATTERY OPERATED. LENS TO BE RED AND BE ABLE TO ROTATE 90 DEGREES.
2. SANDBAGS TO BE PLACED ON EACH SUPPORT BRACE AS REQUIRED TO PREVENT DISPLACEMENT BY WIND, JET OR PROP BLAST.
3. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
4. PLACE AT 10' INTERVALS.



PORTABLE CLOSED RUNWAY MARKER DETAIL
 N.T.S.



CONSTRUCTION SETBACK LINE DETAIL
 N.T.S.

VERMILION REGIONAL AIRPORT
 VERMILION REGIONAL AIRPORT AUTHORITY
 DANVILLE, ILLINOIS

RELOCATE TAXIWAY C AND WIDEN FILLETS
 CONSTRUCTION ACTIVITY PLAN NOTES &
 DETAILS

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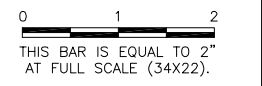


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DRAWN BY:	CMT
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APPROVED BY:	CET
DATE:	MARCH 1, 2013
JOB No:	120420100

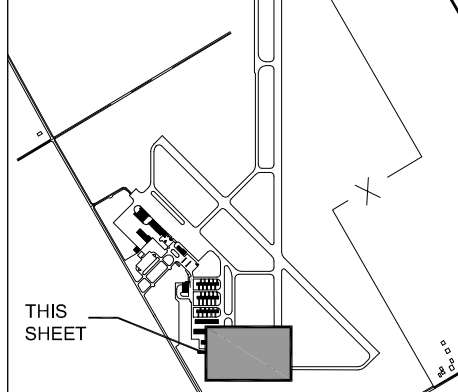
IL PROJ. NO. DNV-4229
 SBG PROJ. NO. 3-17-0032-B14

VE048

REVISIONS		
NUMBER	BY	DATE



KEYMAP



LEGEND

	EXISTING INLET
	EXISTING UNDERDRAIN CLEANOUT
	EXISTING UNDERDRAIN COLLECTION STRUCTURE
	EXISTING MANHOLE - STORM SEWER
	EXISTING AIRFIELD SIGN
	EXISTING ROADWAY SIGN
	EXISTING BASE MOUNTED TAXIWAY LIGHT
	EXISTING BASE MOUNTED RUNWAY LIGHT
	EXISTING BASE MOUNTED THRESHOLD LIGHT
	EXISTING JUNCTION BOX
	EXISTING STORM SEWER PIPE
	EXISTING UNDERDRAIN
	EXISTING TAXIWAY LIGHTING CIRCUIT
	EXISTING RUNWAY CIRCUIT
	EXISTING VASI
	EXISTING PAVEMENT MARKING
	EXISTING ELECTRICAL DUCT
	TO BE REMOVED

T HANGAR TAXILANE

TAXIWAY C

RUNWAY 3/21

TAXIWAY C

**VERMILION REGIONAL AIRPORT
 VERMILION REGIONAL AIRPORT AUTHORITY
 DANVILLE, ILLINOIS**

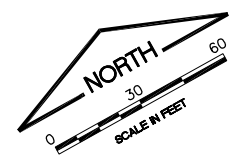
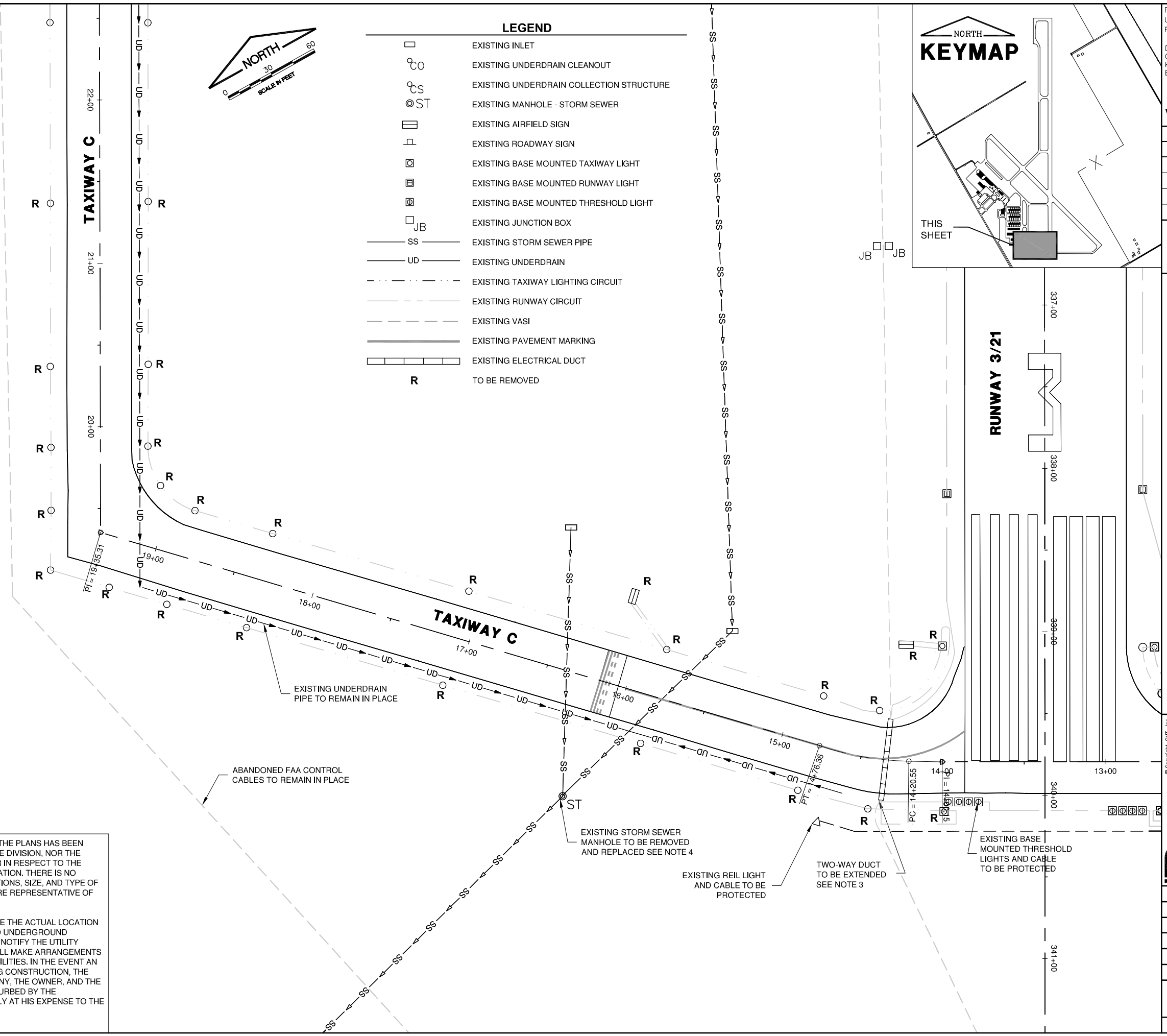
**RELOCATE TAXIWAY C AND WIDEN FILLETS
 EXISTING CONDITIONS & REMOVALS**

NOTES:

- SEE PAVEMENT REMOVAL PLAN FOR LIMITS OF PROPOSED PAVEMENT REMOVAL.
- REMOVAL OF THIS INLET SHALL REQUIRE THE REMOVAL AND REPLACEMENT OF THE EXISTING PIPE TO THE NEAREST BELL ON THE CONNECTING PIPE SECTION TO THE INLET.
- EXTENDING THE EXISTING DUCT SHALL CONSIST OF EXTENDING ONLY THE CONDUIT CARRYING FAA CABLES USING SNAP-DUCT AND ENCASING IT IN CONCRETE. THE OTHER CONDUITS WILL BE ABANDONED IN PLACE.
- THE EXISTING STORM SEWER MANHOLE SHALL BE REMOVED AND REPLACED WITH A TYPE I INLET ACCORDING TO THE INLET DETAILS SHEET.

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER, THE DIVISION, NOR THE PROJECT ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE, AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OF HIS OPERATIONAL PLANS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DETAILED INFORMATION AND ASSISTANCE IN LOCATING UTILITIES. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY, THE OWNER, AND THE RESIDENT ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.



K:\Dm\12042013\Draw\Sheets

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SHEET	06 OF 27 SHEETS

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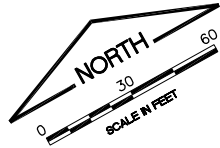
T HANGAR TAXILANE

TAXIWAY C

TAXIWAY C

RUNWAY 3/21

NEW TAXIWAY C



NORTH
KEYMAP

THIS SHEET

FILE: EXISTPVM.dwg
UPDATE BY: Andrew Bodine
PLOT DATE: 3/6/2013 2:22 PM

DNVBase_StatePlane
C-SPAL-EXIST
BASE-PROP.GEO
C-SPAL
Keymap

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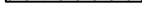


REVISIONS

NUMBER	BY	DATE

0 1 2
THIS BAR IS EQUAL TO 2"
AT FULL SCALE (34X22).

NOTES:
THE INFORMATION ON THIS SHEET HAS BEEN
OBTAINED FROM AVAILABLE RECORD DRAWINGS.

LEGEND

-  3" BITUMINOUS SURFACE COURSE (OVERLAY) (401)
-  2" BITUMINOUS SURFACE COURSE (401)
-  7" BITUMINOUS BASE COURSE (201)
-  7" GRANULAR SUBBASE (154)

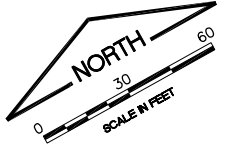
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DANVILLE, ILLINOIS

RELOCATE TAXIWAY C AND WIDEN FILLETS
EXISTING PAVEMENT STRUCTURES

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JOB No: 120420100

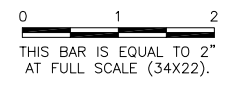
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SBG PROJ. NO. 3-17-0032-B14
SHEET 07 OF 27 SHEETS



FILE: PVMREMOVAL.dwg
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 C=SPAL
 Keymap

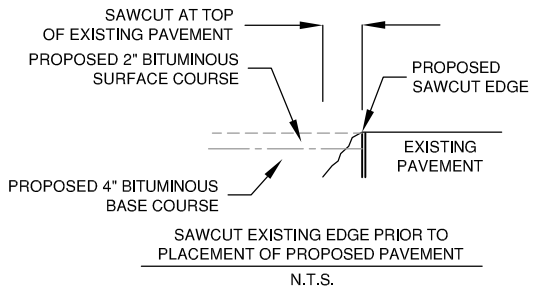
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T HANGAR TAXILANE

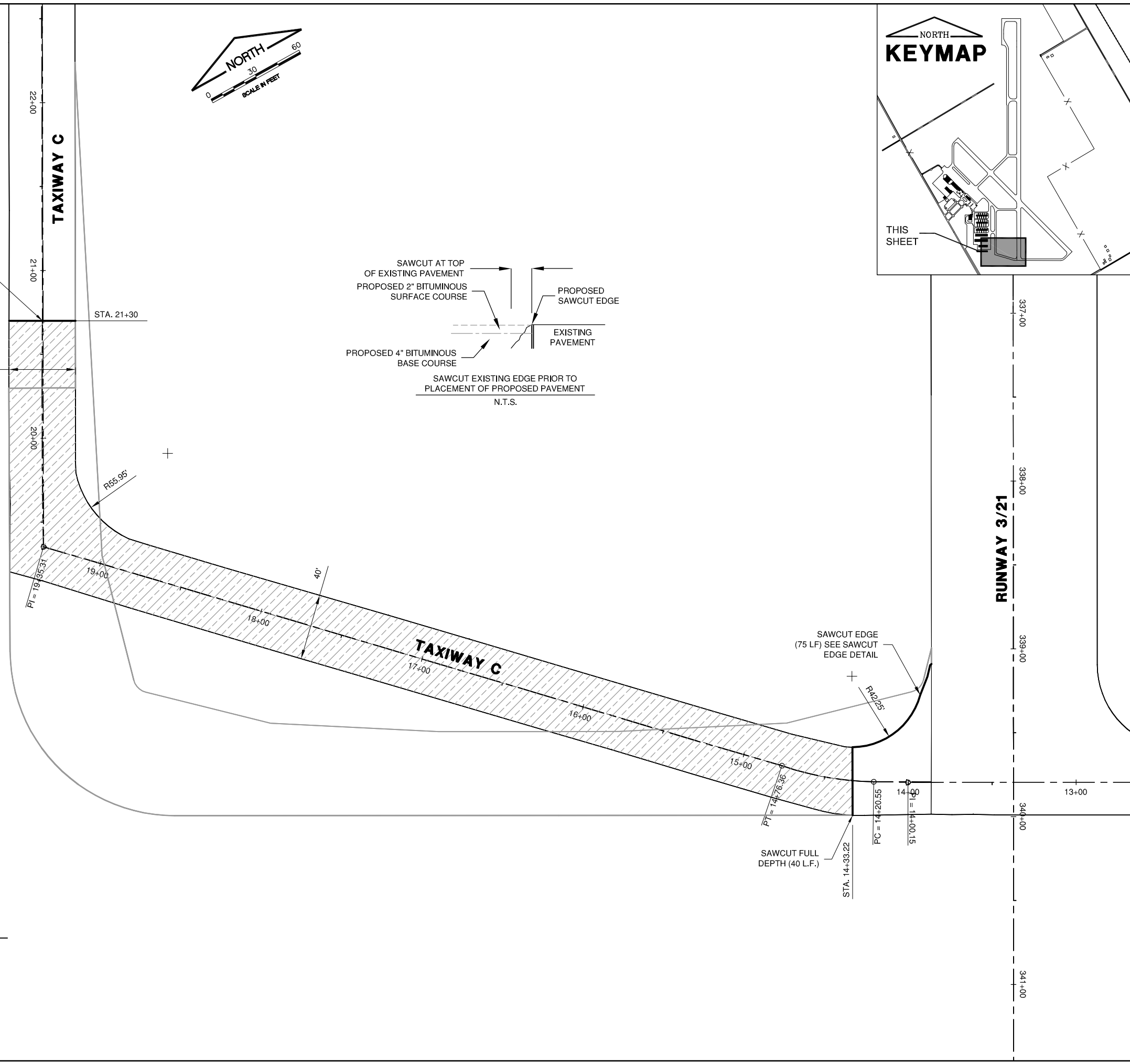
TAXIWAY C



- NOTES:**
1. CONTRACTOR SHALL USE CAUTION WHEN WORKING AGAINST ADJACENT STRUCTURES TO REMAIN IN PLACE. ALL PAVEMENT DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN COST.
 2. SAWCUTTING SHALL BE INCIDENTAL TO THE ASSOCIATED REMOVAL ITEM.
 3. THE QUANTITY MEASURED IN-PLACE PRIOR TO REMOVAL SHALL BE THE QUANTITY USED FOR PAYMENT.

LEGEND

- PAVEMENT REMOVAL - FULL DEPTH
- NEW FULL DEPTH SAWCUT



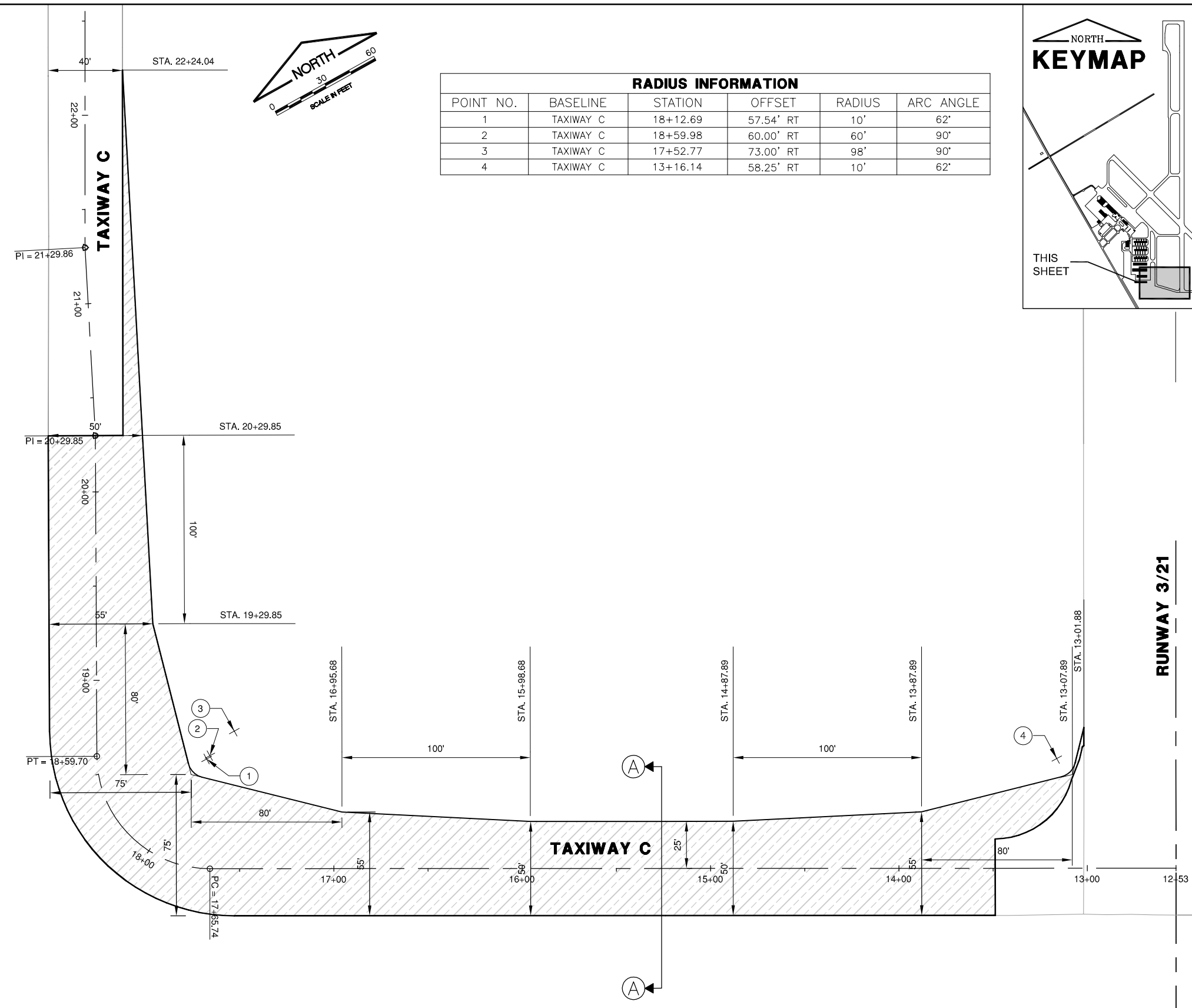
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**RELOCATE TAXIWAY C AND WIDEN FILLETS
 PAVEMENT REMOVAL PLAN**

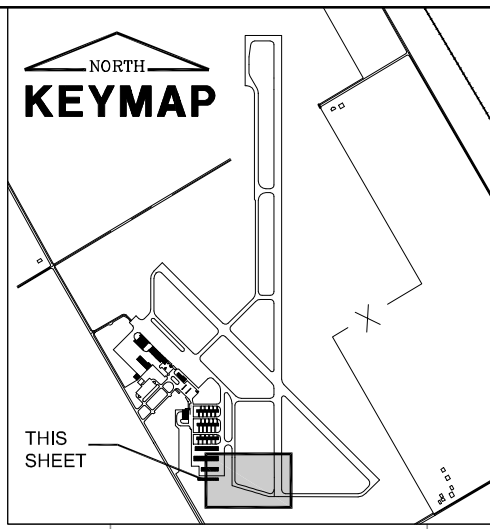
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JOB No:	120420100
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SHEET	08 OF 27 SHEETS

T HANGAR TAXILANE



RADIUS INFORMATION					
POINT NO.	BASELINE	STATION	OFFSET	RADIUS	ARC ANGLE
1	TAXIWAY C	18+12.69	57.54' RT	10'	62'
2	TAXIWAY C	18+59.98	60.00' RT	60'	90'
3	TAXIWAY C	17+52.77	73.00' RT	98'	90'
4	TAXIWAY C	13+16.14	58.25' RT	10'	62'

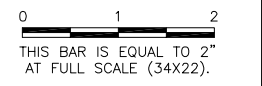


FILE: PROPIMP.dwg
 UPDATE BY: Andrew Bodine
 PLOT DATE: 3/6/2013 2:23 PM

DNVBase_StatePlane
 C:\SPAL
 BASE: PROP.GEO
 Keymap
 tempgeo

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VERMILION REGIONAL AIRPORT
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 DANVILLE, ILLINOIS

RELOCATE TAXIWAY C AND WIDEN FILLETS
 PROPOSED IMPROVEMENTS

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SHEET	09 OF 27 SHEETS

NOTES:
 SEE SITE PLAN FOR BASELINE INFORMATION.

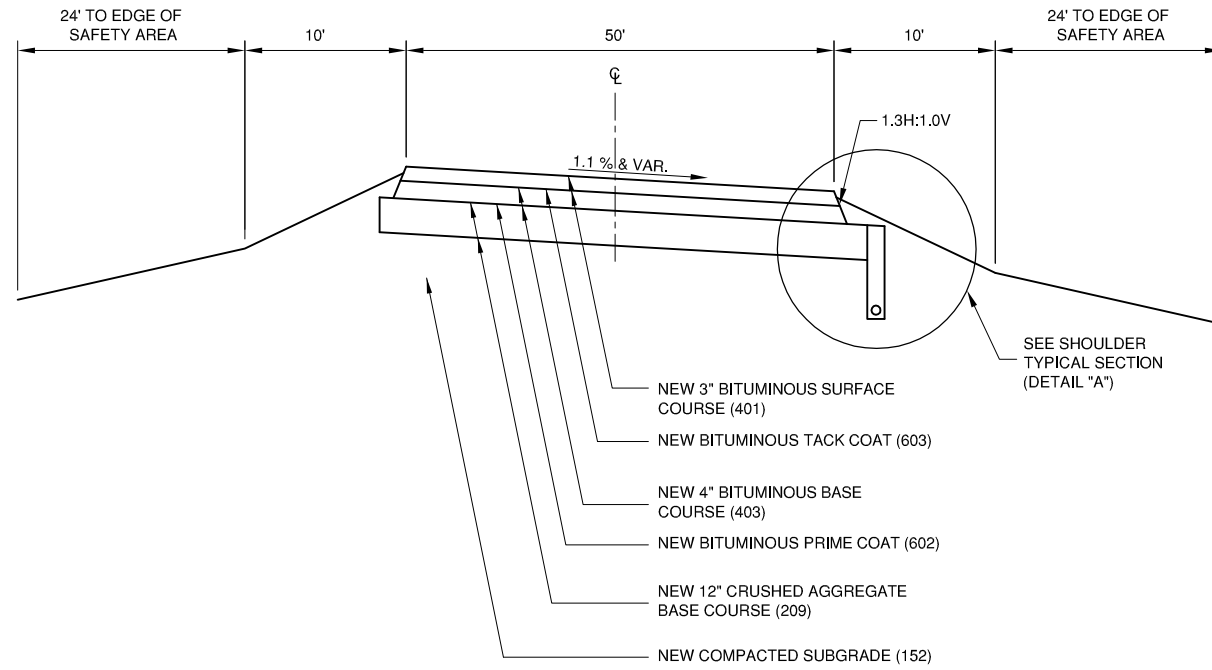
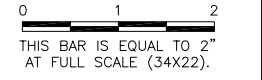
LEGEND

- 3" BITUMINOUS SURFACE COURSE (401)
- 4" BITUMINOUS BASE COURSE (403)
- 12" CRUSHED AGGREGATE BASE COURSE (209)
- NEW COMPACTED SUBGRADE (152)

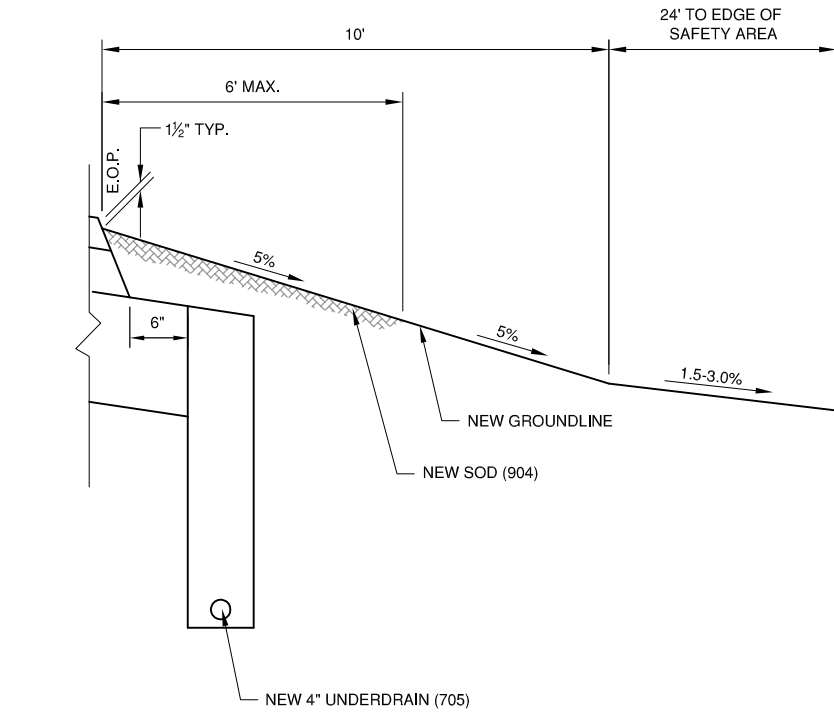
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A TAXIWAY C A
 N.T.S.



NEW SHOULDER DETAIL "A"
 N.T.S.

NOTES:

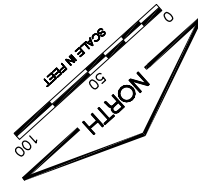
- SEE "PROPOSED IMPROVEMENTS" SHEETS FOR SECTION LOCATIONS.

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**RELOCATE TAXIWAY C AND WIDEN FILLETS
 TYPICAL SECTIONS**

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SHEET	10 OF 27 SHEETS



LEGEND

- 650.2 NEW CONTOUR
- 650.0 EXISTING PAVEMENT
- PROPOSED PAVEMENT



FILE: PNPTXYC.dwg
 UPDATE BY: Andrew Bodine
 PLOT DATE: 3/6/2013 2:24 PM

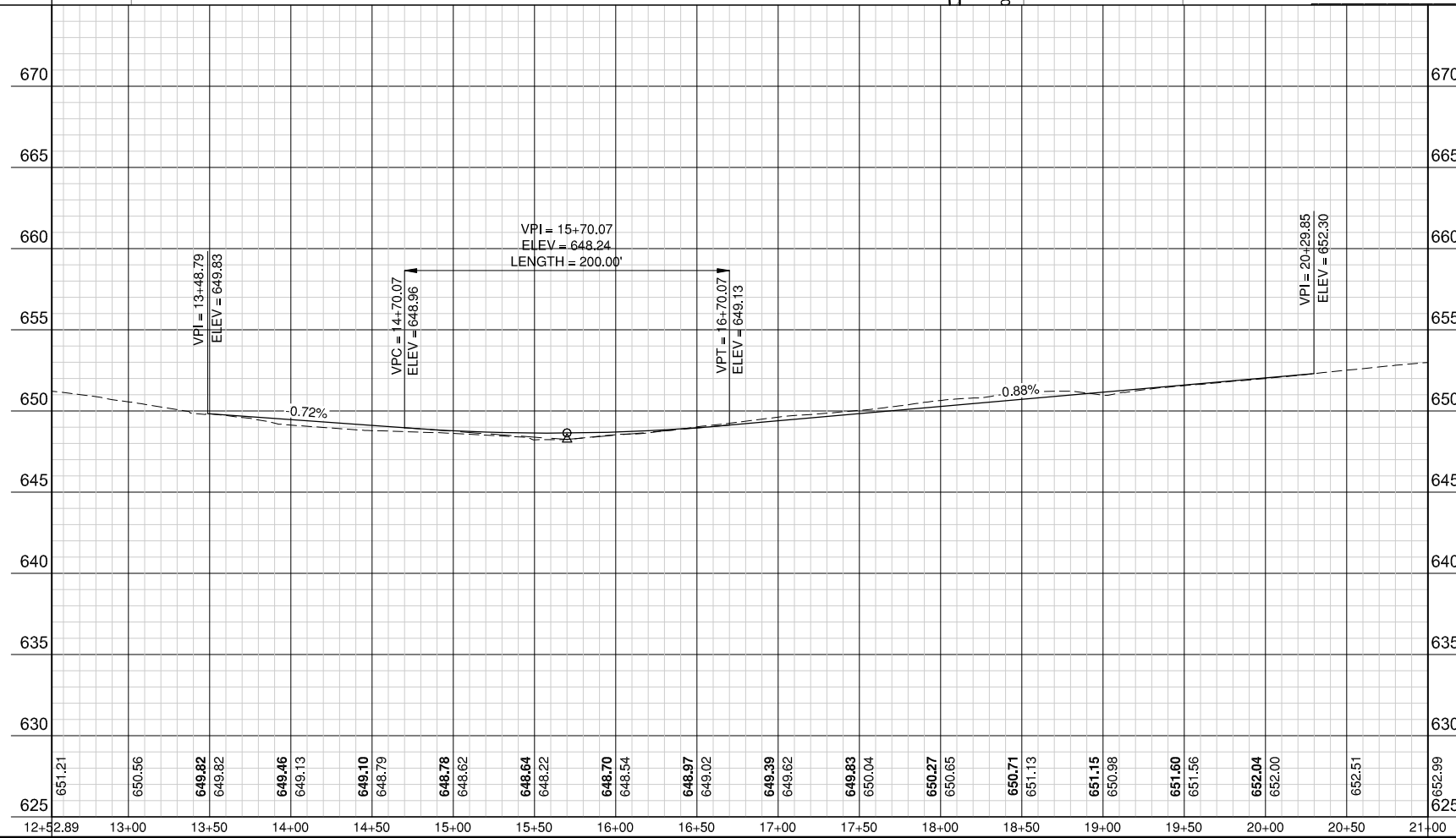
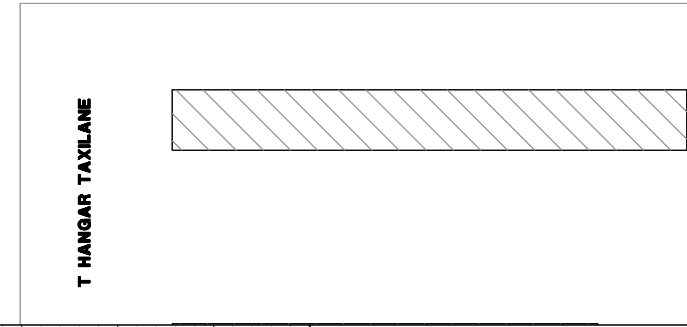
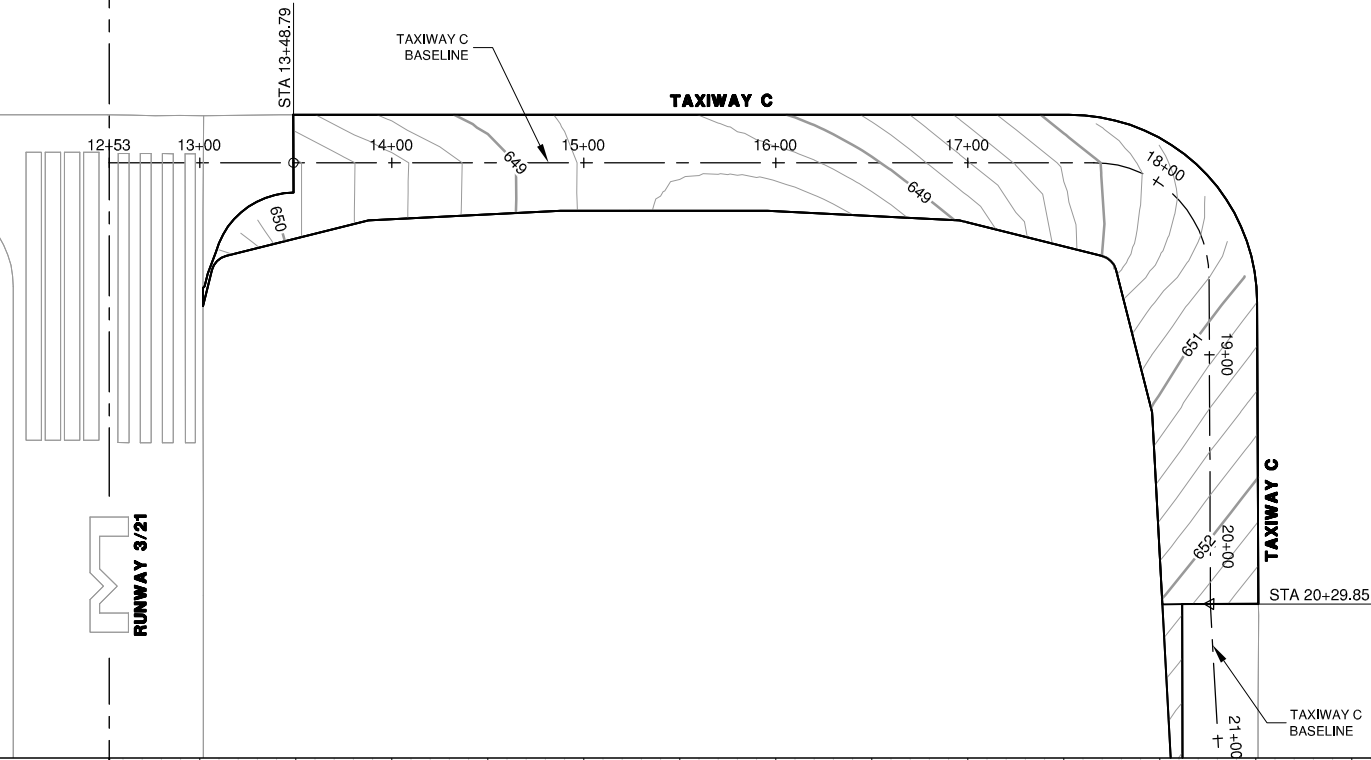
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 BASE_PROP.GEO
 Keymap
 tempgeo

VE048

REVISIONS

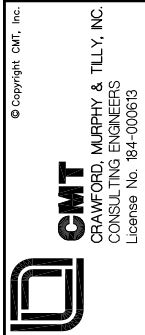
NUMBER	BY	DATE

0 1 2
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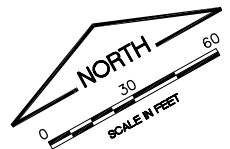
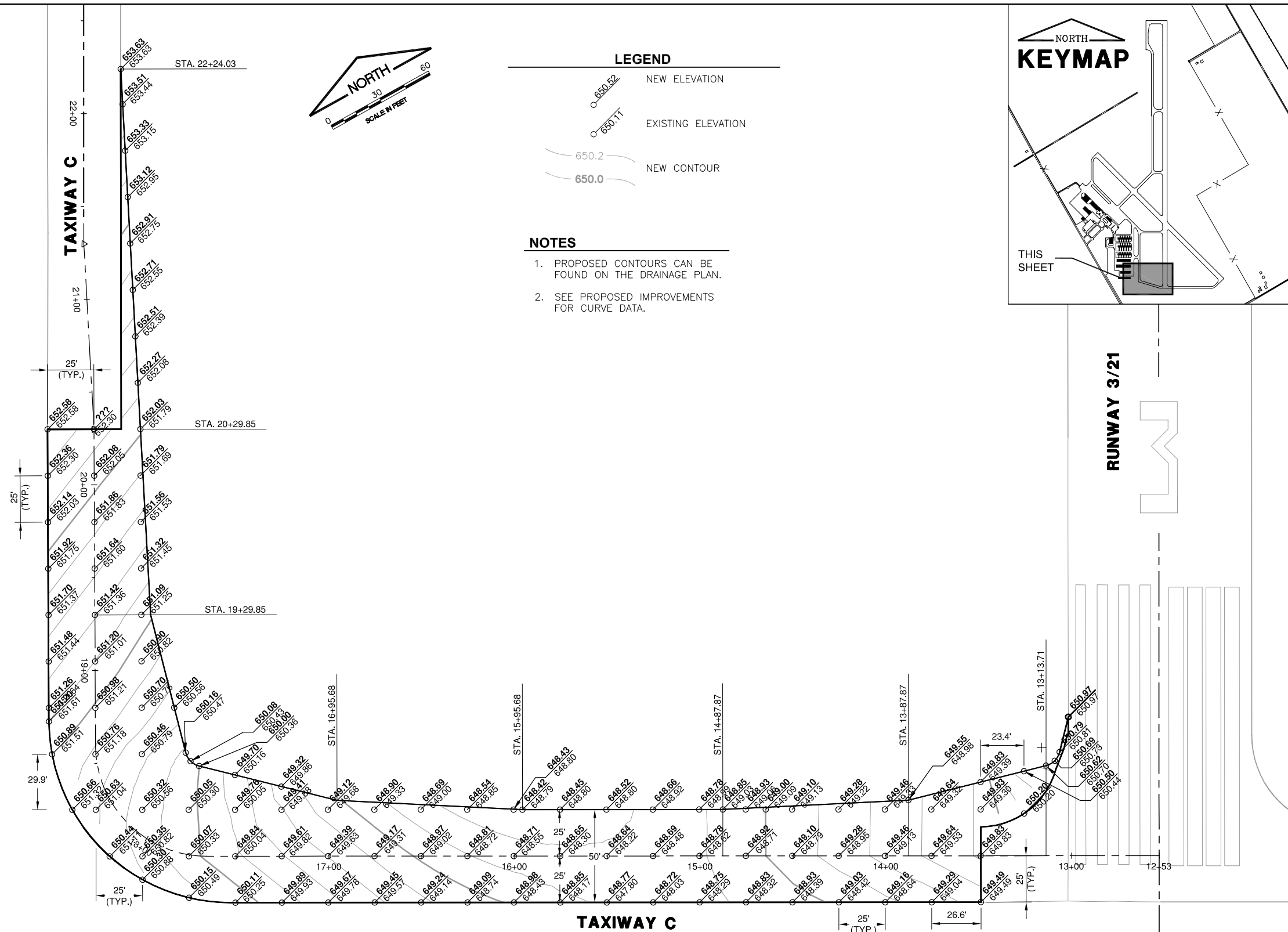
RELOCATE TAXIWAY C AND WIDEN FILLETS
 TAXIWAY C PLAN & PROFILE



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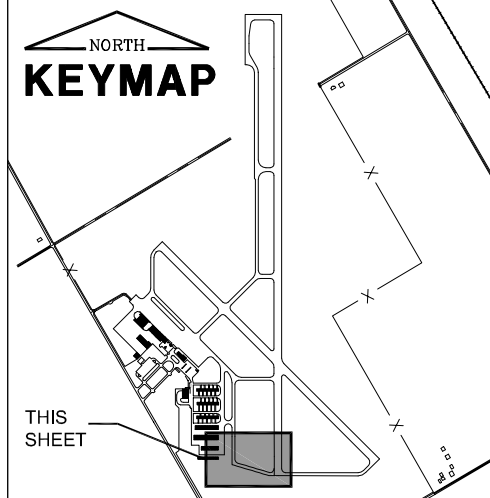


LEGEND

- NEW ELEVATION
- EXISTING ELEVATION
- NEW CONTOUR
- EXISTING CONTOUR

NOTES

1. PROPOSED CONTOURS CAN BE FOUND ON THE DRAINAGE PLAN.
2. SEE PROPOSED IMPROVEMENTS FOR CURVE DATA.



FILE: STAKING01.dwg
 UPDATE BY: Andrew Bodine
 PLOT DATE: 3/6/2013 2:25 PM

Base-Combined
 BASE PROP.GEO
 Keymap

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REVISIONS		
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0 1 2
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**RELOCATE TAXIWAY C AND WIDEN FILLETS
 STAKING PLAN 1**

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SBG PROJ. NO.	3-17-0032-B14
SHEET	12 OF 27 SHEETS

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T HANGAR TAXILANE

TAXIWAY C

NOTE

1. SEE DRAINAGE SCHEDULE SHEET FOR INFORMATION PERTAINING TO THE PIPES AND STRUCTURES ON THIS SHEET.
2. SHOULD THE ELEVATIONS OF THE EXISTING UNDERDRAIN CONFLICT WITH THOSE OF THE PROPOSED LINE 1, THE CONTRACTOR SHALL INSTALL A COLLECTION STRUCTURE AT THE INTERSECTION. AN ADDITIONAL COLLECTION STRUCTURE HAS BEEN INCLUDED IN THE PLAN QUANTITIES FOR THIS PURPOSE.
3. UNDERDRAIN PIPE SHALL BE INSTALLED AT A CONSTANT OFFSET AS SHOWN ON THE UNDERDRAIN DETAILS. PIPE OFFSETS WILL VARY WHEN CONNECTING TO CLEANOUTS AND COLLECTION STRUCTURES, BUT SHALL IMMEDIATELY TAPER BACK TO THE STANDARD OFFSET.

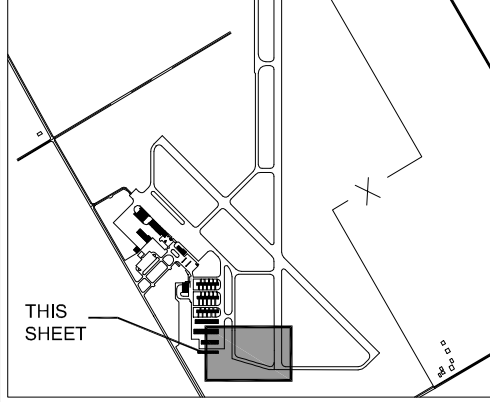
UNDERDRAIN STRUCTURE SCHEDULE

STRUCTURE	TYPE	STATION	OFFSET	RIM ELEV	INVERT ELEV.
CO-1	CLEANOUT TYPE 1	20+39	26' RT	651.70'	648.70'
CS-1	COLLECTION STRUCTURE	15+63	30' RT	647.70'	644.70'
CO-2	CLEANOUT TYPE 1	13+15	49.2' RT	650.25'	647.66'
CO-3	CLEANOUT TYPE 1	13+02	25.4 LT	650.22'	647.86'

UNDERDRAIN PIPE SCHEDULE

LINE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	UPSTREAM INVERT	DOWNSTREAM INVERT	LENGTH (FT.)	SLOPE	PIPE
LINE-1	CO-1	CS-1	648.70'	644.70'	400'	1.00%	4" PERFORATED
LINE-2	CO-2	CS-1	647.66'	644.70'	251'	1.18%	4" PERFORATED
LINE-3	CS-1	IN-1	644.70'	644.41'	58'	0.50%	4" NON-PERFORATED
LINE-4	CO-3	IN-1	647.86'	646.27'	244'	0.65%	4" PERFORATED

KEYMAP



FILE: GRAEDRAIN01.dwg
 UPDATE BY: Andrew Bodine
 PLOT DATE: 3/6/2013 2:28 PM
 Keymap
 Base-Combined
 1204201-C-UPDR
 DNVBase_StatePlane

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0 1 2
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 DANVILLE, ILLINOIS

RELOCATE TAXIWAY C AND WIDEN FILLETS
 GRADING & DRAINAGE PLAN

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 SHEET 13 OF 27 SHEETS

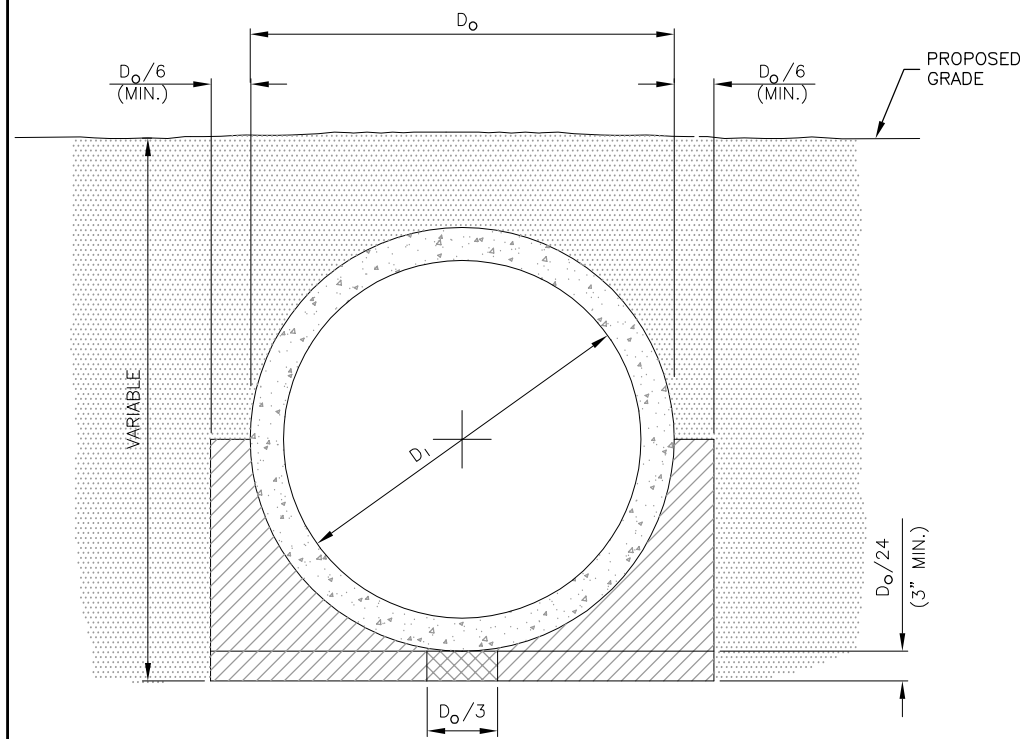
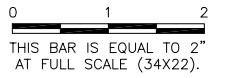
LEGEND

- EIN-1 EXISTING INLET
- IN-1 PROPOSED INLET
- UD — UD — EXISTING UNDERDRAIN
- UD — UD — PROPOSED UNDERDRAIN
- SS — SS — EXISTING STORM SEWER
- SS — SS — PROPOSED STORM SEWER
- 590 — PROPOSED CONTOUR
- - - 590 - - - EXISTING CONTOUR
- - - GRADING LIMITS

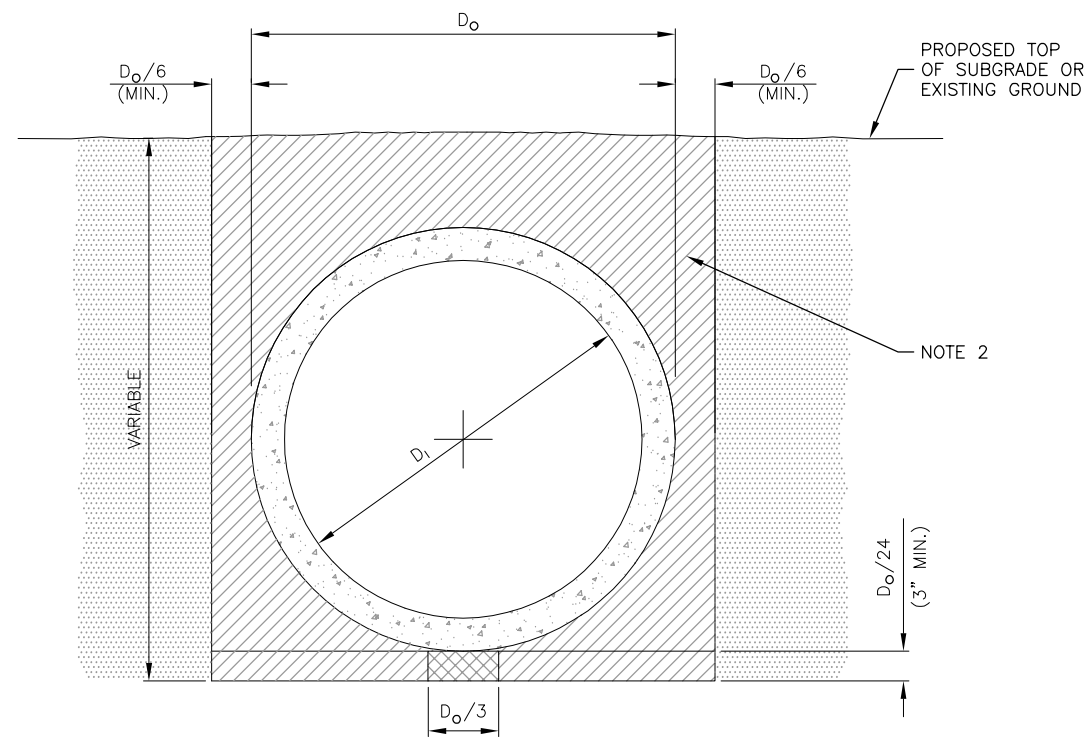
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**STANDARD TRENCH INSTALLATION
 NON-PAVED AREA**
 N.T.S.



**STANDARD TRENCH INSTALLATION
 PROPOSED PAVED AREA**
 N.T.S.

TRENCH INSTALLATION LEGEND

- DRAINAGE CONDUIT MATERIAL—CONCRETE
- MIDDLE BEDDING LOOSELY PLACED UNCOMPACTED BEDDING
- HAUNCH AND OUTER BEDDING COMPACTION— TO ENGINEER'S SATISFACTION OR 95% STANDARD PROCTOR
- LOWER SIDE AND OVERFILL COMPACTION— SAME AS EMBANKMENT REQUIREMENTS
- D_o PIPE OUTSIDE DIAMETER
- D_i PIPE INSIDE DIAMETER

TRENCH INSTALLATION NOTES

1. BEDDING SHOWN IS IN ACCORDANCE WITH "STANDARD EMBANKMENT INSTALLATIONS", STANDARD INSTALLATION & BEDDING FACTORS FOR THE INDIRECT DESIGN METHOD (DESIGN DATA 40), AMERICAN CONCRETE PIPE ASSOCIATION.
2. BACKFILL TO EXTEND 3' BEYOND EDGES OF PROPOSED PAVEMENT.

**VERMILION REGIONAL AIRPORT
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 DANVILLE, ILLINOIS**

**RELOCATE TAXIWAY C AND WIDEN FILLETS
 DRAINAGE DETAILS**

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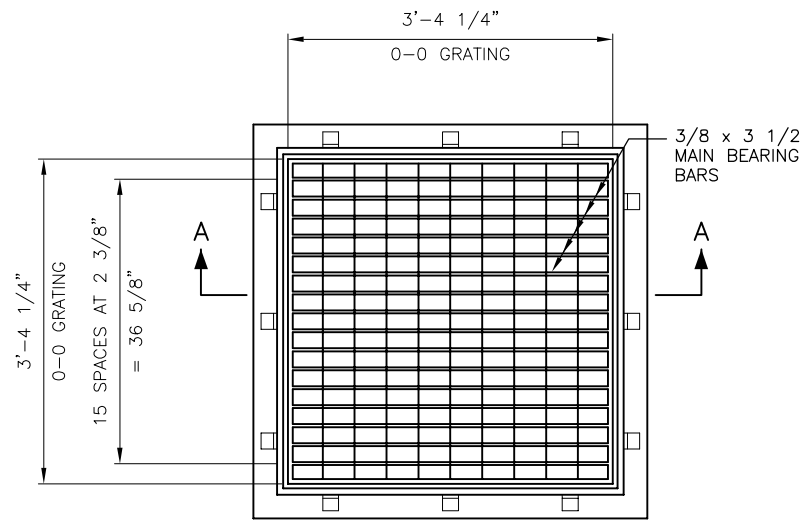
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SHEET	14 OF 27 SHEETS

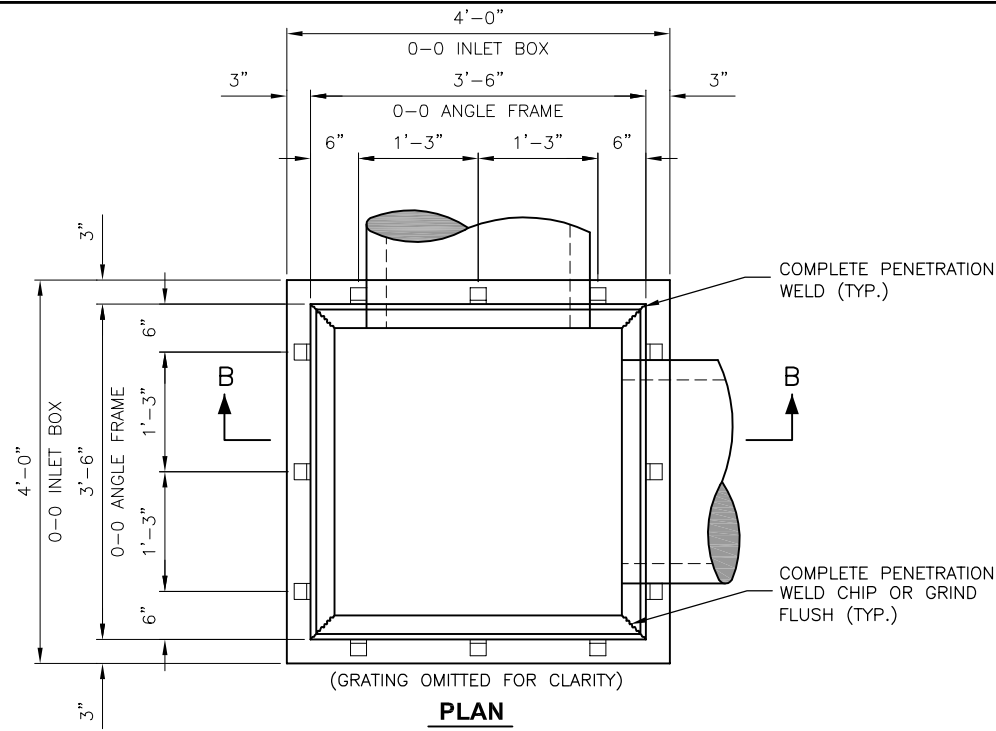
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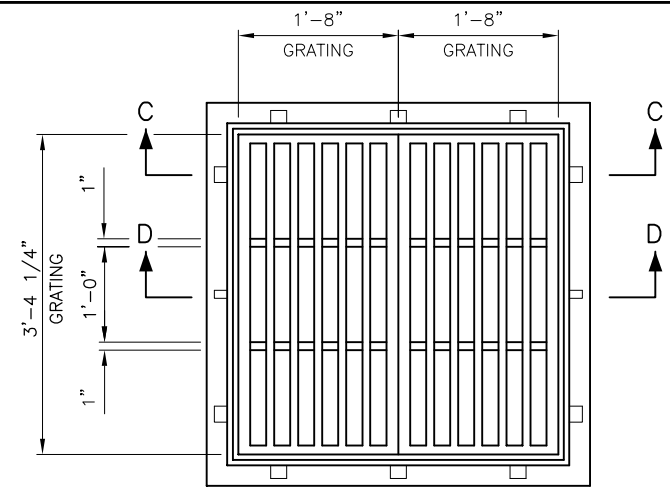
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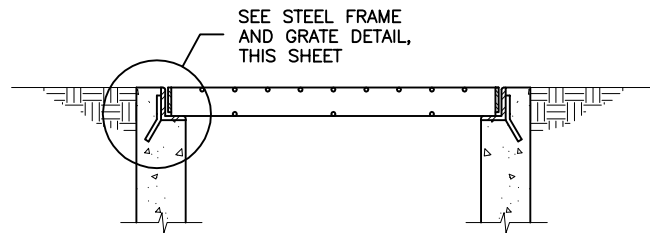
PLAN
N.T.S.



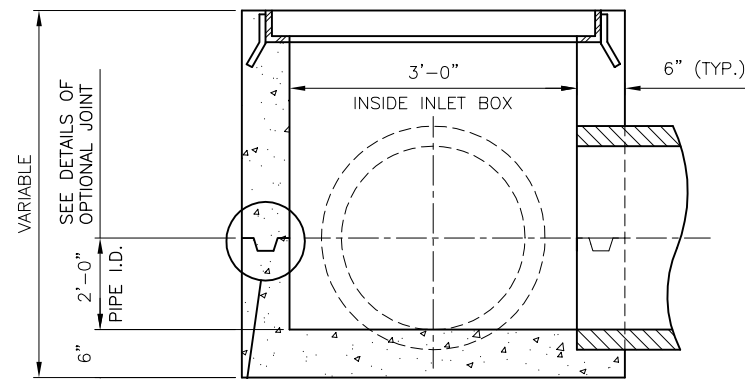
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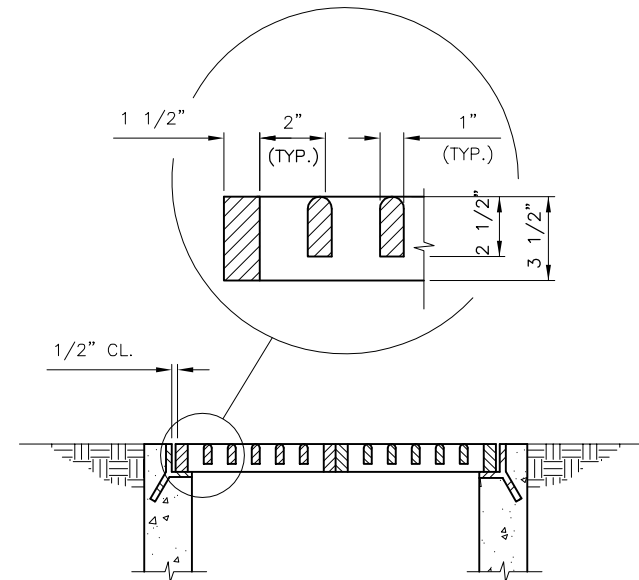
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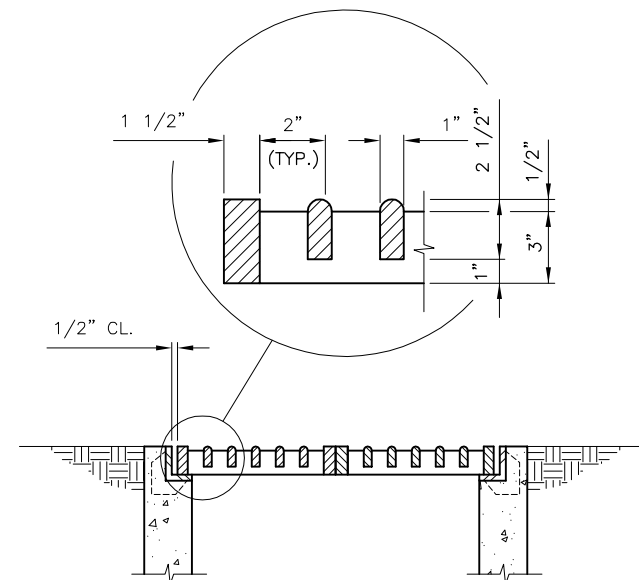
SECTION A-A
N.T.S.



SECTION B-B
N.T.S.

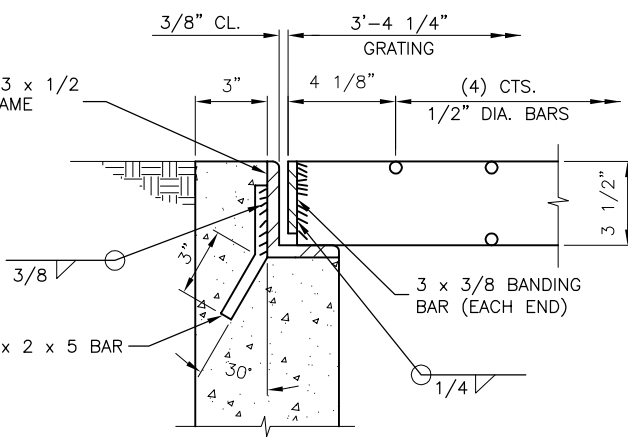


SECTION C-C
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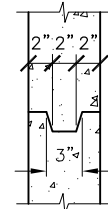


SECTION D-D
N.T.S.

CAST FRAME & GRATE DETAILS
N.T.S.



STEEL FRAME & GRATE DETAIL
N.T.S.



OPTIONAL JOINT DETAIL
N.T.S.

INLET NOTE

1. INLET IS AN IDOT STD. 542546, FLUSH INLET BOX FOR MEDIAN.
2. INLET 2 FRAME & GRATE IS A NEENAH R-3807 OR APPROVED EQUAL.
3. INLET 1 FRAME AND LID IS A NEENAH R-1878-A10L OR APPROVED EQUAL.

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 VERMILION REGIONAL AIRPORT AUTHORITY
 DANVILLE, ILLINOIS

RELOCATE TAXIWAY C AND WIDEN FILLETS
 INLET DETAILS

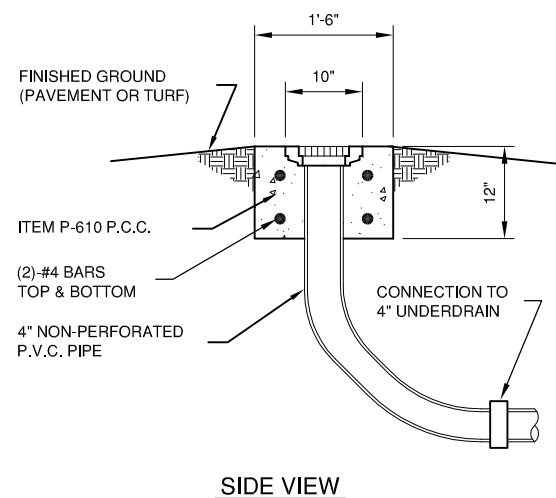
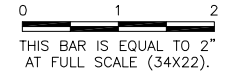
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IL PROJ. NO.	DNV-4229
SBG PROJ. NO.	3-17-0032-B14
SHEET	15 OF 27 SHEETS

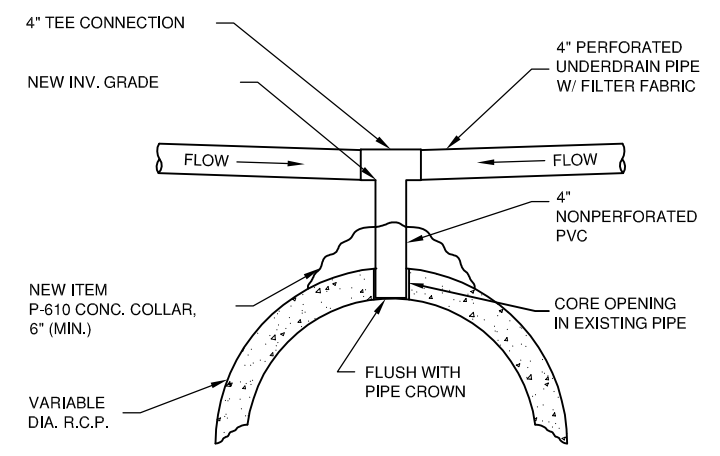
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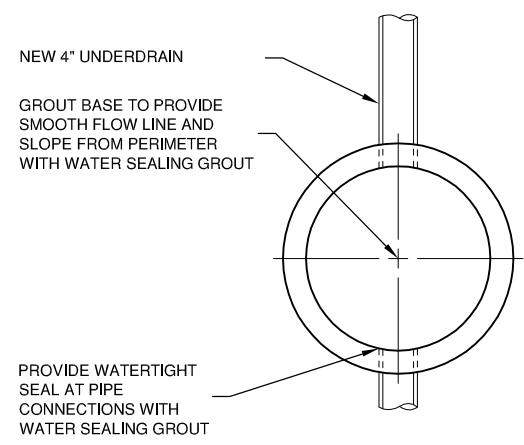
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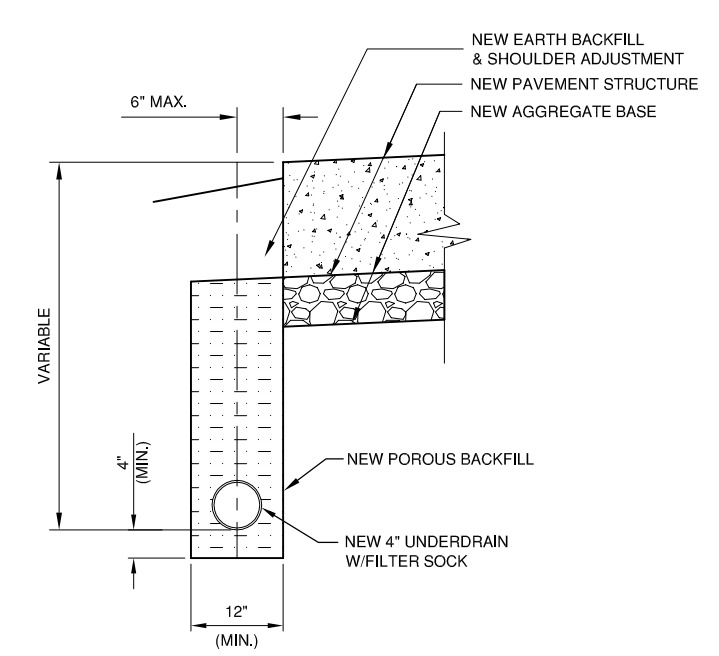
UNDERDRAIN CLEAN-OUT DETAIL (TYPE 1)
N.T.S.



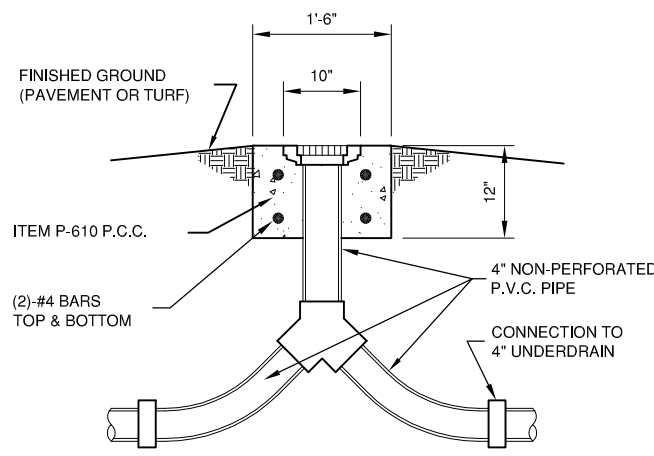
UNDERDRAIN DIRECT TOP CONNECTION DETAIL
N.T.S.



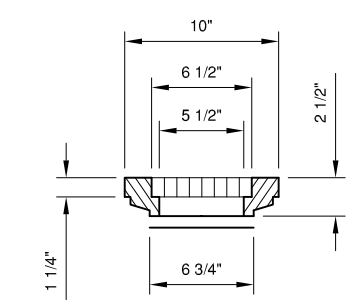
UNDERDRAIN CLEAN-OUT DETAIL
N.T.S.



TYPICAL UNDERDRAIN DETAIL PAVEMENT EDGE
N.T.S.

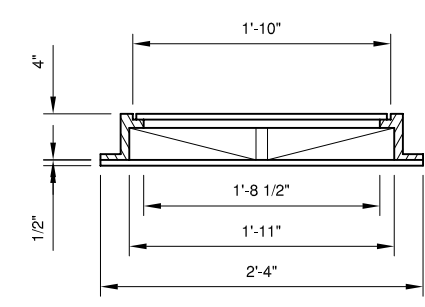


UNDERDRAIN CLEAN-OUT DETAIL (TYPE 2)
N.T.S.



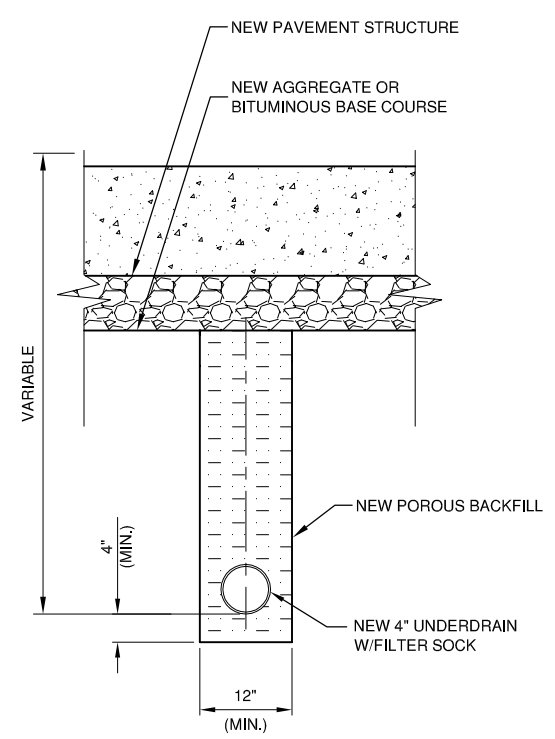
CAST IRON FRAME & COVER (SIMILAR TO NEENAH R-6013 OR APPROVED EQUAL)

FRAME & COVER

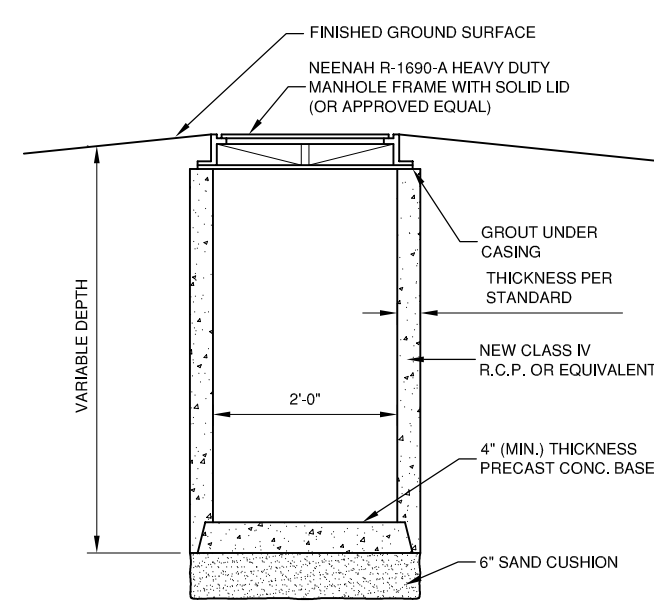


CAST IRON FRAME & LID (SIMILAR TO NEENAH R-1690-A HEAVY DUTY OR APPROVED EQUAL)

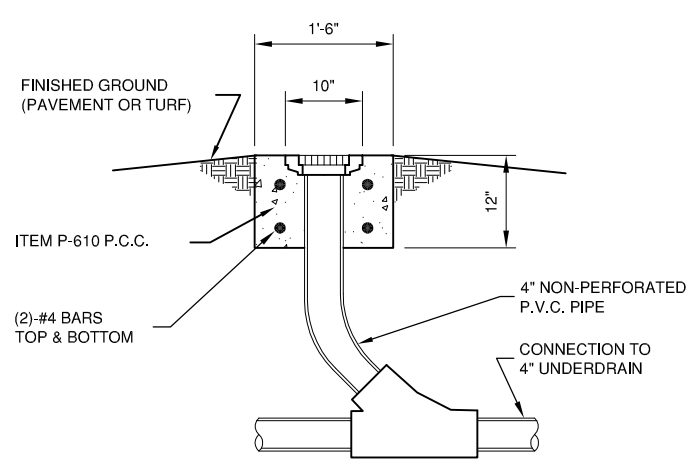
FRAME & LID



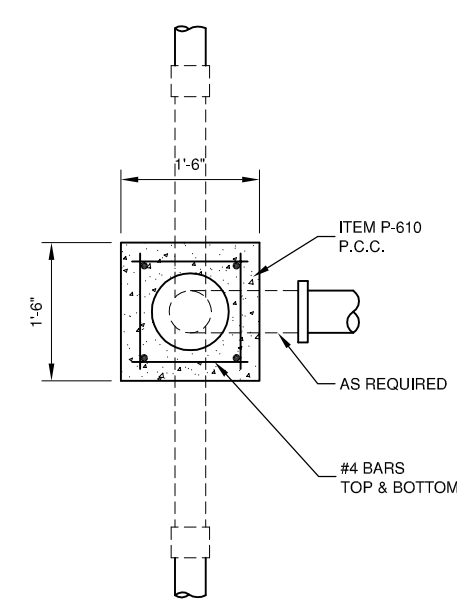
TYPICAL UNDERDRAIN DETAIL BELOW PAVEMENT
N.T.S.



UNDERDRAIN COLLECTION STRUCTURE DETAIL
N.T.S.



UNDERDRAIN CLEAN-OUT DETAIL (TYPE 3)
N.T.S.



UNDERDRAIN CLEAN-OUT DETAIL
N.T.S.

UNDERDRAIN NOTE
 DURING UNDERDRAIN CONSTRUCTION, CARE SHALL BE TAKEN TO ENSURE GOOD DRAINAGE BETWEEN THE SUB-BASE AND THE POROUS BACKFILL MATERIAL WHICH WILL AFFECT DRAINAGE TO THE UNDERDRAIN SHALL BE REMOVED PRIOR TO THE PLACEMENT OF PROPOSED POROUS BACKFILL. ALL COST FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL.

VERMILION REGIONAL AIRPORT
 VERMILION REGIONAL AIRPORT AUTHORITY
 DANVILLE, ILLINOIS

RELOCATE TAXIWAY C AND WIDEN FILLETS
 UNDERDRAIN DETAILS

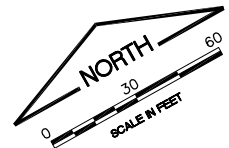
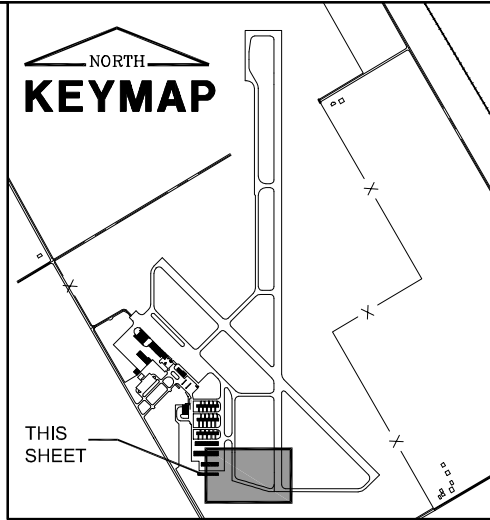
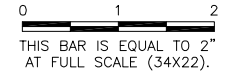
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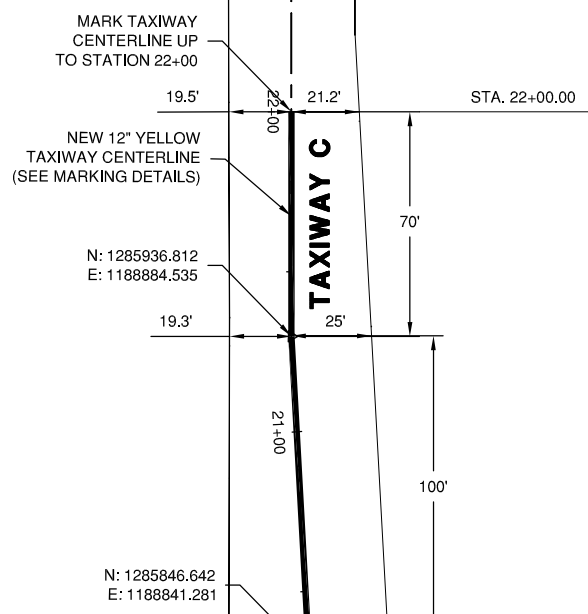


LEGEND

- EXISTING MARKING
- NEW MARKING
- CURVE INFORMATION (SEE TABLE - THIS SHEET)

- NOTES:**
- NO TAXIWAY MARKINGS SHALL EXTEND ONTO RUNWAY PAVEMENT.
 - ANY EXISTING MARKINGS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REMARKED BY HIM TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AT NO ADDITIONAL COST TO THE CONTRACT.

T HANGAR TAXILANE



N: 1285936.812
 E: 1188884.535

N: 1285846.642
 E: 1188841.281

170.1'

STATION: 18+59.70
 OFFSET: 60.00' RT

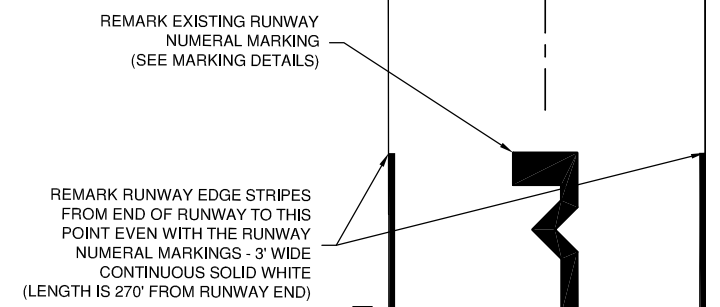
NEW RUNWAY HOLD
 POSITION MARKING
 (SEE MARKING DETAILS)

STA. 15+02.89

TAXIWAY C

NEW 12" YELLOW
 TAXIWAY CENTERLINE
 (SEE MARKING DETAILS)

256.9'



REMARK EXISTING
 THRESHOLD MARKINGS
 (SEE MARKING DETAILS)

STATION: 13+12.89
 OFFSET: 60.00' RT

MARK TAXIWAY
 CENTERLINE UP TO
 RUNWAY EDGE
 STATION 13+01.88

RUNWAY 3/21

STA. 13+01.88

CURVE INFO FOR PAVEMENT MARKING			
NUMBER	STATION	OFFSET	RADIUS
C1	18+59.70	60.00' RT.	60'
C2	13+12.89	60.00' RT.	60'

*NOTE:
 • CURVE INFORMATION FOR CENTERLINE MARKING ARE REFERENCING THE CENTER OF THE MARKING.

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 DANVILLE, ILLINOIS**

**RELOCATE TAXIWAY C AND WIDEN FILLETS
 MARKING PLAN 1**

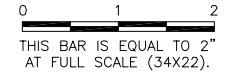
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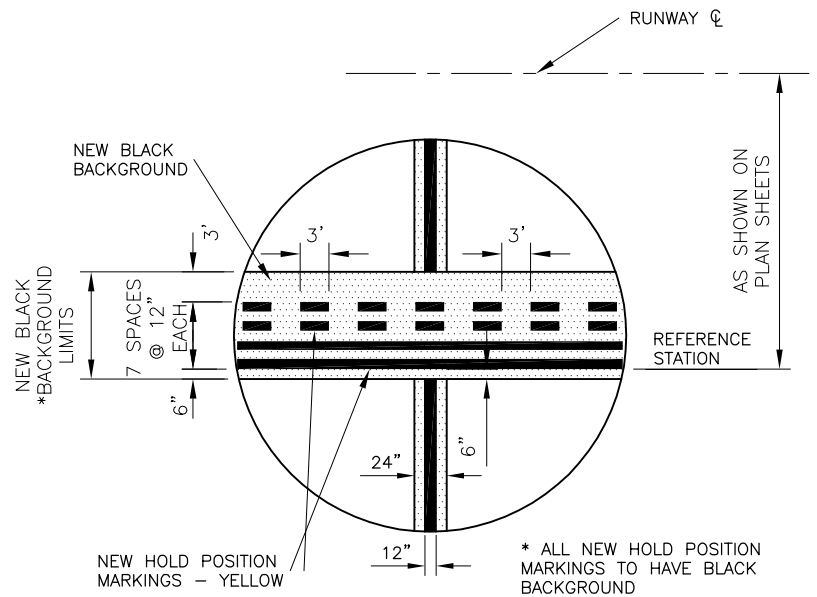
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SHEET	17 OF 27 SHEETS

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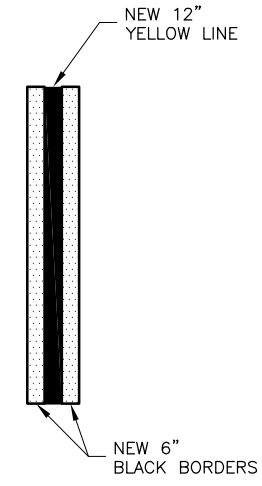
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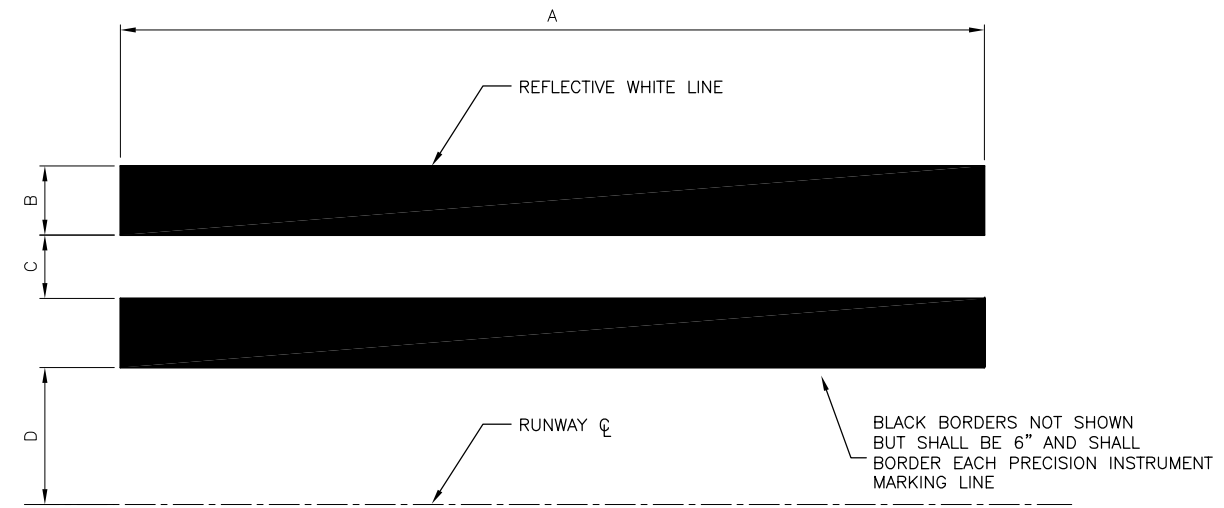
- MARKING NOTE**
1. ALL NEW AIRFIELD MARKING SHALL HAVE REFLECTIVE BEADS & 6" BLACK BORDER.
 2. REFLECTIVE BEADS ARE NOT TO BE PLACED IN THE BLACK BORDER.



HOLD POSITION MARKING DETAIL
N.T.S.



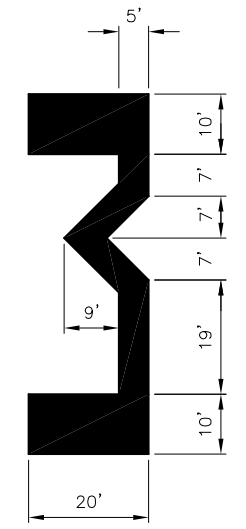
TAXIWAY CENTERLINE CONTINUOUS
N.T.S.



150' RUNWAY				
MARKING (PER RUNWAY END)	DIMENSION			
	A	B	C	D
THRESHOLD MARKER*	150'	5.75'	5.75'	5.75'

*8 STRIPES TOTAL

PRECISION INSTRUMENT MARKING DETAIL
N.T.S.



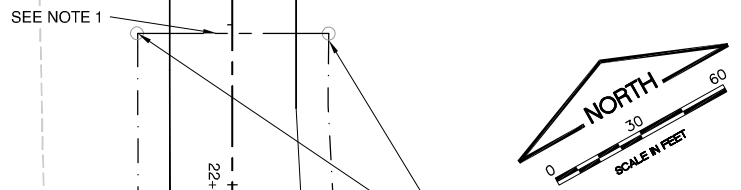
(AREA = 735 SF)
RUNWAY NUMERALS DETAIL
N.T.S.

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DANVILLE, ILLINOIS
RELOCATE TAXIWAY C AND WIDEN FILLETS
MARKING DETAILS 1

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T HANGAR TAXILANE

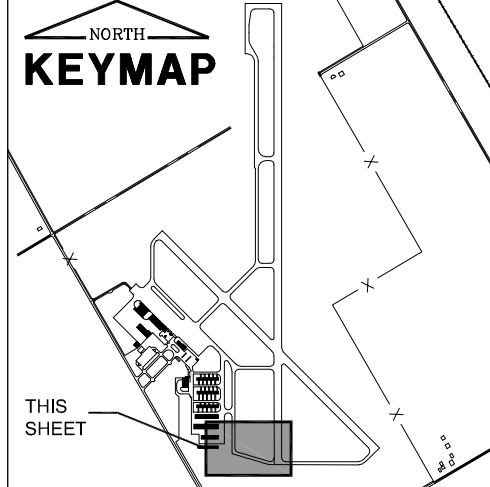


CONNECT CIRCUIT EXTENSION TO EXISTING TAXIWAY C CIRCUIT AT THIS LIGHT

LEGEND

- ◻ EXISTING BASE MOUNTED TAXIWAY LIGHT
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
- PROPOSED STAKE MOUNTED TAXIWAY LIGHT
- ◼ NEW BASE MOUNTED TAXIWAY LIGHT
- ◻ EXISTING BASE MOUNTED RUNWAY LIGHT
- ◻ EXISTING BASE MOUNTED THRESHOLD LIGHT IN-PAVEMENT
- △△ EXISTING REIL LIGHT
- DM EXISTING DUCT MARKER
- ▭ EXISTING AIRFIELD SIGN
- ▭ NEW AIRFIELD SIGN
- NEW TAXIWAY CIRCUIT
- EXISTING TAXIWAY CIRCUIT
- ▬ NEW CONCRETE ENCASED DUCT
- ▬ EXISTING CONCRETE ENCASED DUCT
- ▬ NEW SPLIT DUCT
- NEW RUNWAY CIRCUIT
- EXISTING RUNWAY CIRCUIT
- EXISTING VASI CABLE
- EXISTING REIL CABLE
- TEMPORARY JUMPER CABLE

**NORTH
KEYMAP**



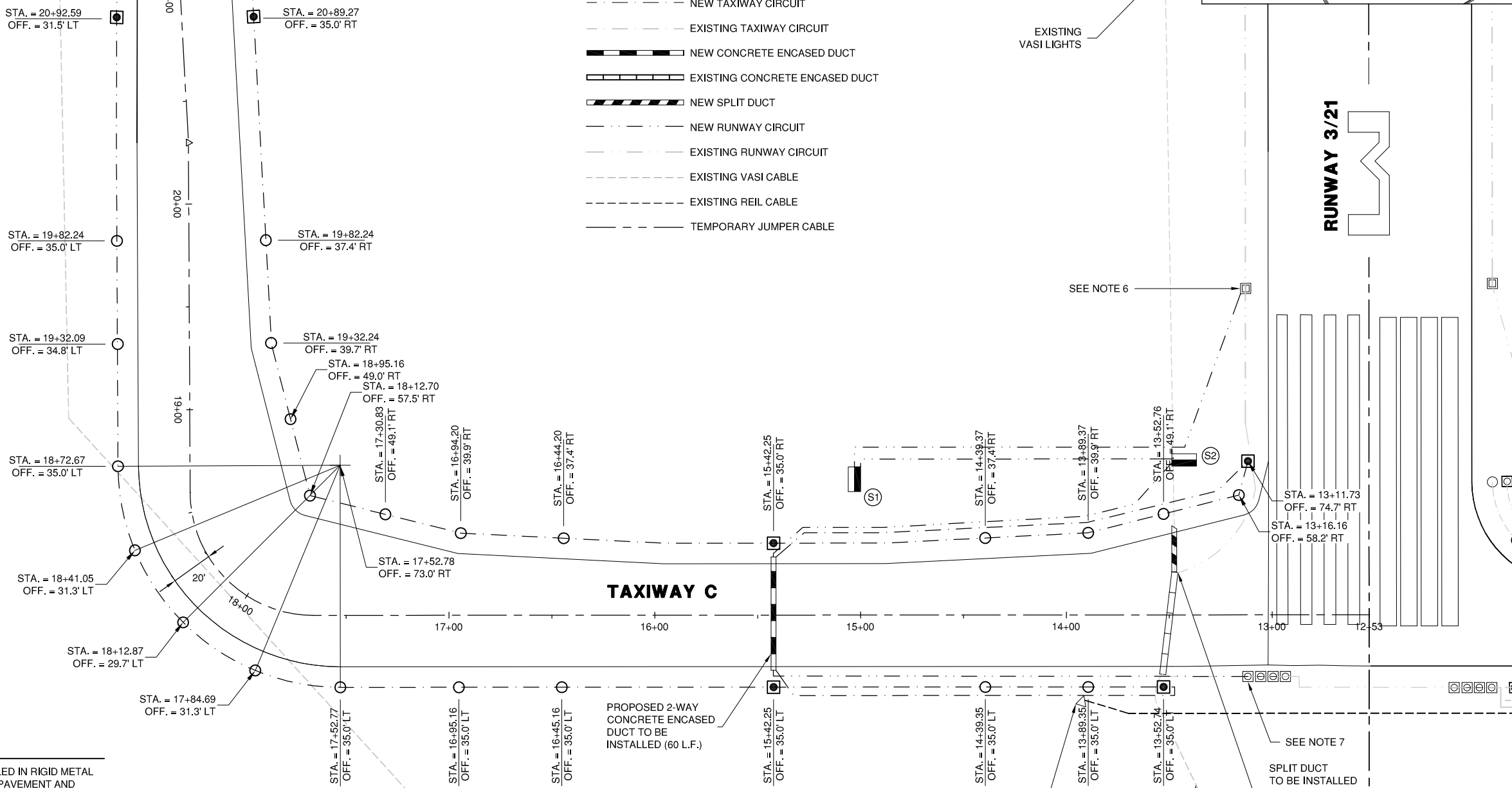
FILE: ELECTPLAN.dwg
UPDATE BY: Andrew Bodine
PLOT DATE: 3/6/2013 2:32 PM

Base-Combined Keymap

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0 1 2
THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).



- NOTES:**
- TEMPORARY JUMPER CABLE TO BE INSTALLED IN RIGID METAL CONDUIT PER AC 150/5370-2F ACROSS THE PAVEMENT AND BETWEEN THE EXISTING LIGHTS AS SHOWN. TEMPORARY JUMPER CABLES SHALL BE INSTALLED PRIOR TO REMOVING EXISTING LIGHTS TO MAINTAIN SERVICE TO THE REST OF THE TAXIWAY CIRCUIT. COST TO INSTALL, MAINTAIN, & REMOVE TEMPORARY JUMPER CABLES SHALL BE INCIDENTAL TO THE PROJECT.
 - NEW EDGE LIGHTS ARE TO BE INSTALLED 10' FROM THE EDGE OF TAXIWAY PAVEMENT.
 - ALL EDGE LIGHTS INSTALLED IN TURF SHALL HAVE VEGETATION CONTROL RINGS AROUND THE BASE OF THE LIGHTS AS SHOWN ON ELECTRICAL DETAILS 2 SHEET.
 - IN-PAVEMENT DUCT MARKERS SHALL BE INSTALLED AT BOTH PAVEMENT EDGES FOR NEW DUCT.
 - SEE AIRFIELD SIGNAGE DETAIL FOR SIGN INFORMATION AND LEGENDS.
 - CONNECT TO EXISTING RUNWAY 3/21 CIRCUIT AT EXISTING RUNWAY BASE MOUNTED LIGHT.
 - CONNECT TO EXISTING RUNWAY 3/21 CIRCUIT AT EXISTING RUNWAY BASE MOUNTED THRESHOLD LIGHT.

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DANVILLE, ILLINOIS**

**RELOCATE TAXIWAY C AND WIDEN FILLETS
ELECTRICAL & LIGHTING PLAN**

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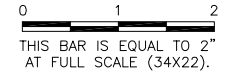
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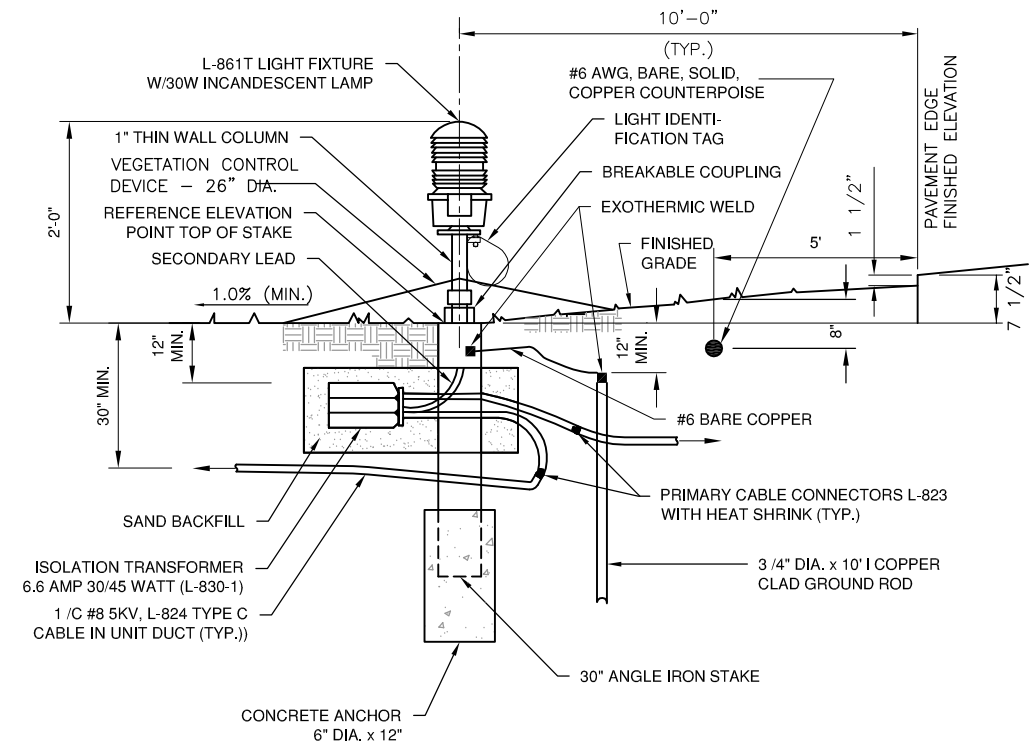


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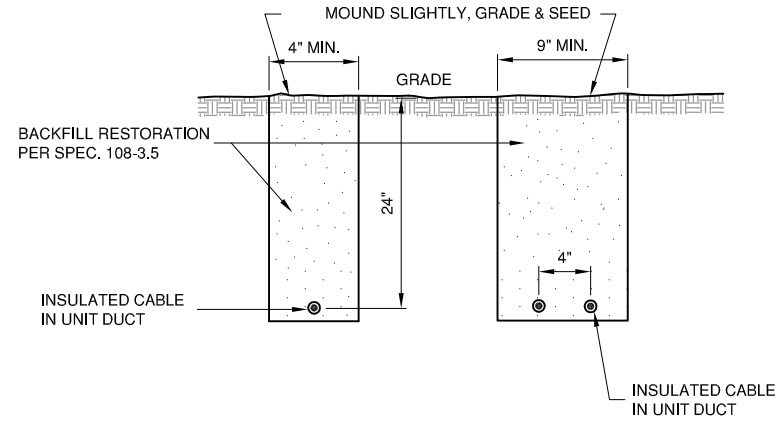
RELOCATE TAXIWAY C AND WIDEN FILLETS
 ELECTRICAL DETAILS 1

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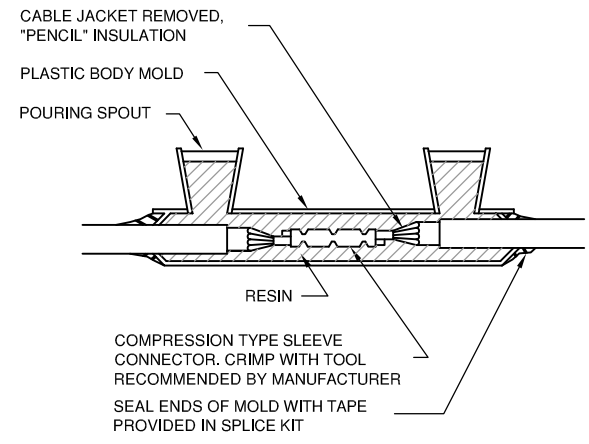


STAKE MOUNTED MEDIUM INTENSITY LIGHTS
 N.T.S.



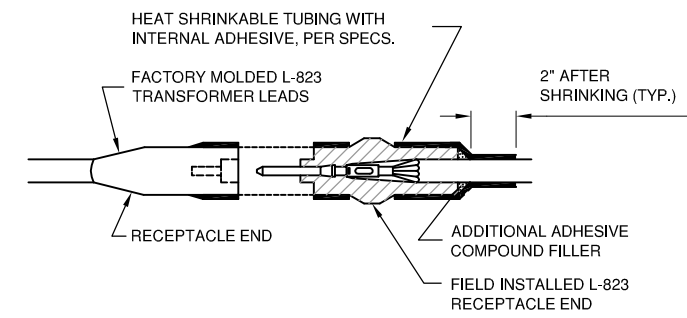
TRENCH DETAIL
 N.T.S.

- TRENCH NOTES**
- TRENCHES WITH MORE THAN 2 CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE. IF SPECIFIED ON PLANS, TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
 - DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 - SAND BACKFILL SHALL BE USED IF THE EXISTING SOIL DOES NOT MEET THE BACKFILL REQUIREMENTS.
 - ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO ITEM 108.



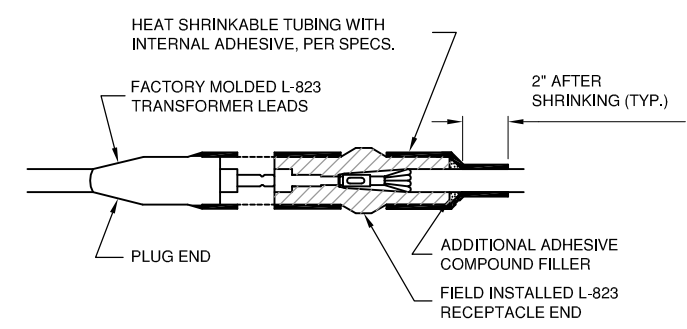
FOR IN-LINE CONNECTIONS OF EXISTING CABLES CUT DURING CONSTRUCTION.

TYPE A



FOR SPLICES AT TAXIWAY LIGHTS AND SIGNS.

TYPE C

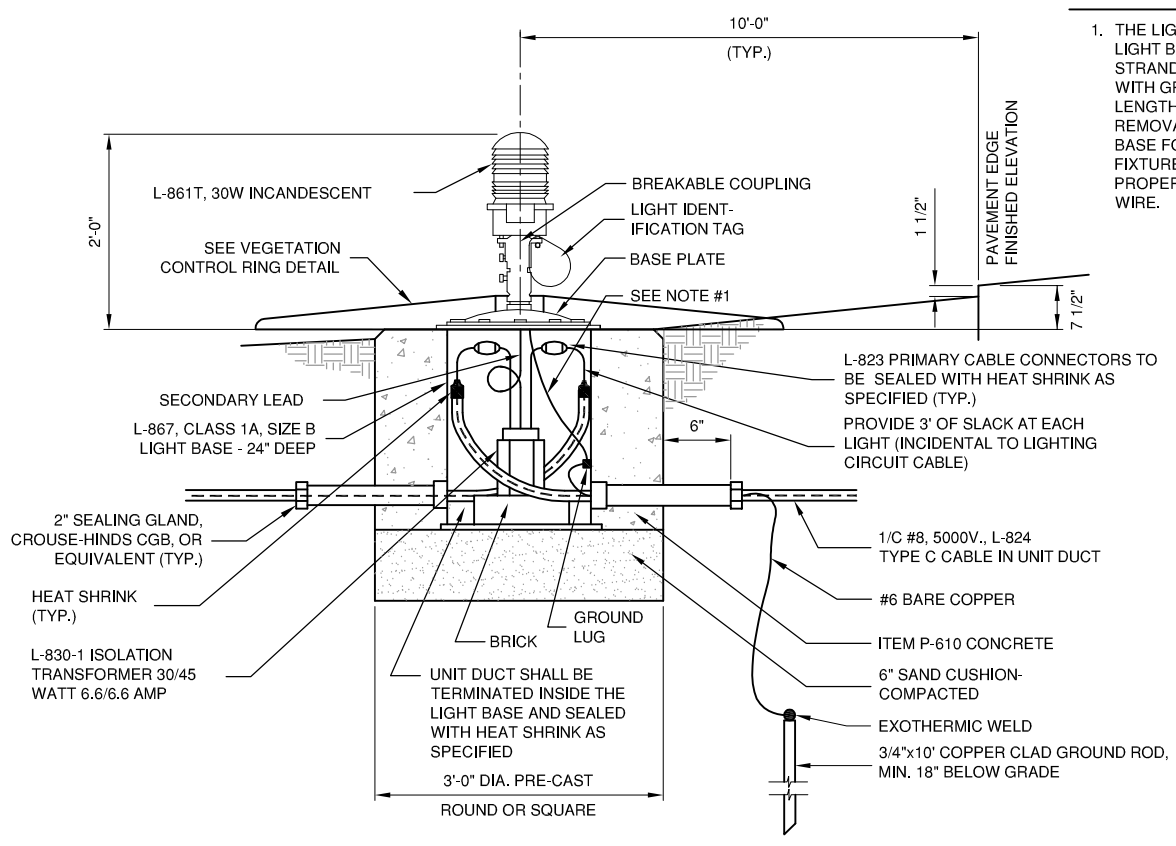


FOR SPLICES AT TAXIWAY LIGHTS AND SIGNS.

TYPE D

CABLE SPLICES
 N.T.S.

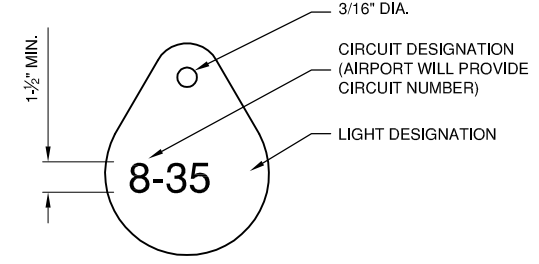
- CABLE SPLICE NOTES**
- INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.
 - THE COST OF FURNISHING AND INSTALLING ALL SPLICE MATERIALS SHALL BE INCIDENTAL TO THE ASSOCIATED CABLE ITEMS.
 - THE CONTRACTOR SHALL HAVE A MINIMUM OF TWO (2) TYPE A SPLICE KITS ON THE JOB SITE AT ALL TIMES FOR EMERGENCY REPAIRS.



BASE MOUNTED EDGE LIGHTS - IN TURF
 N.T.S.

EDGE LIGHT NOTES

- THE LIGHT FIXTURE SHALL BE BONDED TO THE LIGHT BASE INTERNAL GROUND LUG VIA A #6 AWG STRANDED COPPER WIRE RATED FOR 600 VOLTS WITH GREEN XHHW INSULATION. THE GROUND WIRE LENGTH SHALL BE SUFFICIENT TO ALLOW THE REMOVAL OF THE LIGHT FIXTURE FROM THE LIGHT BASE FOR ROUTINE MAINTENANCE. SEE THE LIGHT FIXTURE MANUFACTURER'S INSTRUCTIONS FOR PROPER METHODS OF ATTACHING THIS BONDING WIRE.



LIGHT IDENTIFICATION DETAIL
 N.T.S.

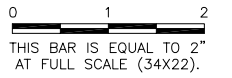
LIGHT IDENTIFICATION NOTES

- INSTALL A NONCORROSIVE DISC OF 2" MINIMUM DIAMETER WITH THE NUMBER PERMANENTLY STAMPED, CUT OUT, OR ENGRAVED UNDER THE HEAD OF THE BASE PLATE BOLT OR ATTACHED TO LIGHT FLANGE WITH SET SCREW.
- LEGENDS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO COORDINATE LEGEND WITH AIRPORT.
- THE CONTRACTOR SHALL NUMBER THE EXISTING/ PROPOSED LIGHTS AND SIGNS IN EACH CIRCUIT STARTING AT THE HOMERUN CONTINUING AROUND THE ENTIRE CIRCUIT BACK TO THE HOMERUN.
- AIRFIELD SIGNS SHALL BE TAGGED & NUMBERED.

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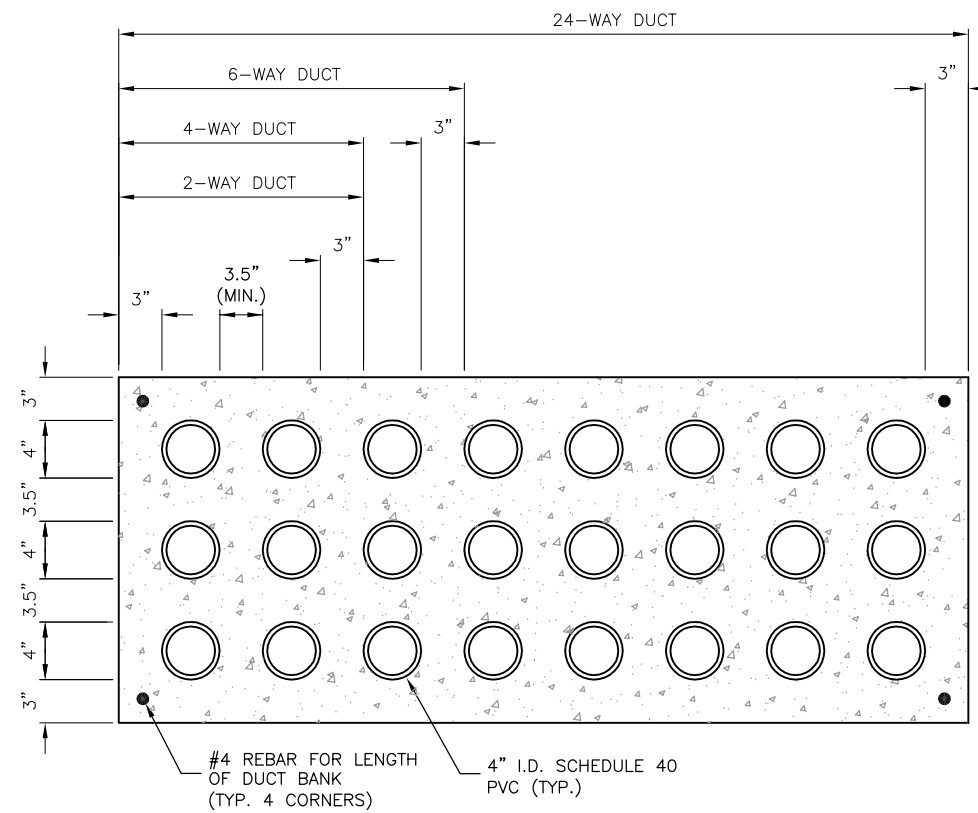
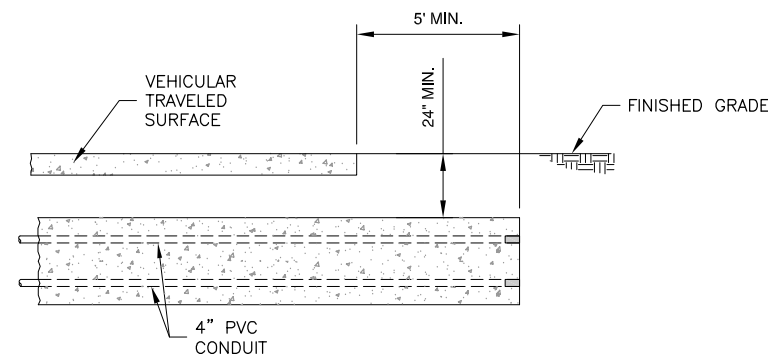
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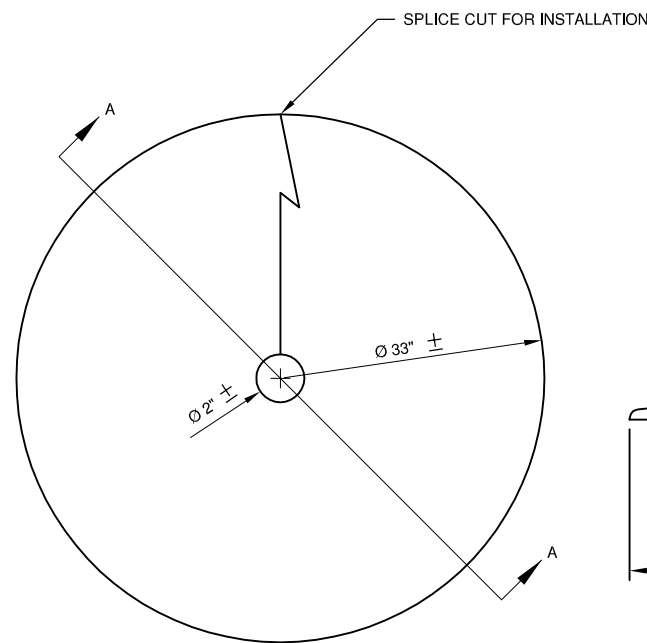
DUCT BANK NOTES

1. DIMENSIONS SHOWN ARE MINIMUM.
2. TOP OF CONCRETE ENCASUREMENT TO BE NOT LESS THAN 24" BELOW FINISHED SUBGRADE.
3. DUCT CONCRETE TO BE ITEM 610 STRUCTURAL P.C.C. CONCRETE.
4. ALL DUCT WILL BE 4" INSIDE DIAMETER.
5. LOCATIONS SHOWN ARE APPROXIMATE. DUCT BANKS TO BE INSTALLED AT LOCATIONS DESIGNATED BY THE ENGINEER.
6. CONTRACTOR WILL INSTALL DUCT BANKS AT A DEPTH WHICH WILL NOT CONFLICT WITH ELEVATION SENSITIVE UTILITIES.
7. A PULL WIRE MUST BE PROVIDED IN EACH UNUSED CONDUIT. UNUSED DUCT MUST BE SEALED AT CAN PLAZA TO THE SATISFACTION OF THE ENGINEER.



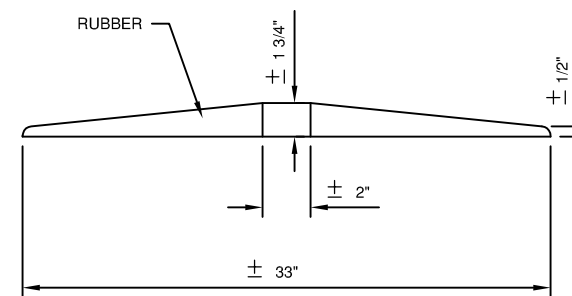
DUCT BANK DETAILS

N.T.S.



PLAN VIEW

N.T.S.

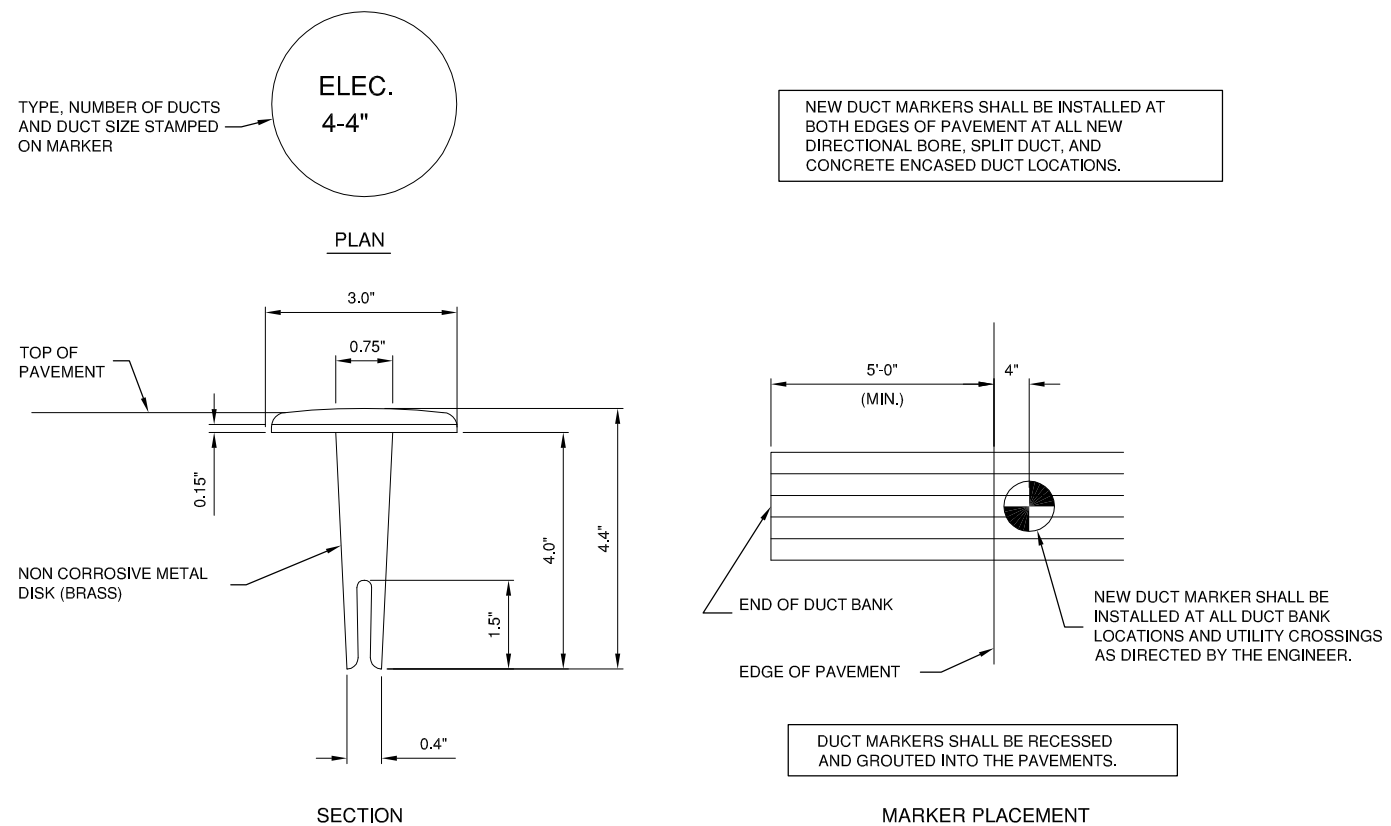


SECTION A-A

N.T.S.

VEGETATION CONTROL RING DETAIL

N.T.S.



SECTION

DUCT MARKER DETAILS

N.T.S.

MARKER PLACEMENT

VERMILION REGIONAL AIRPORT
 VERMILION REGIONAL AIRPORT AUTHORITY
 DANVILLE, ILLINOIS

RELOCATE TAXIWAY C AND WIDEN FILLETS
 ELECTRICAL DETAILS 2

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JOB No:	120420100

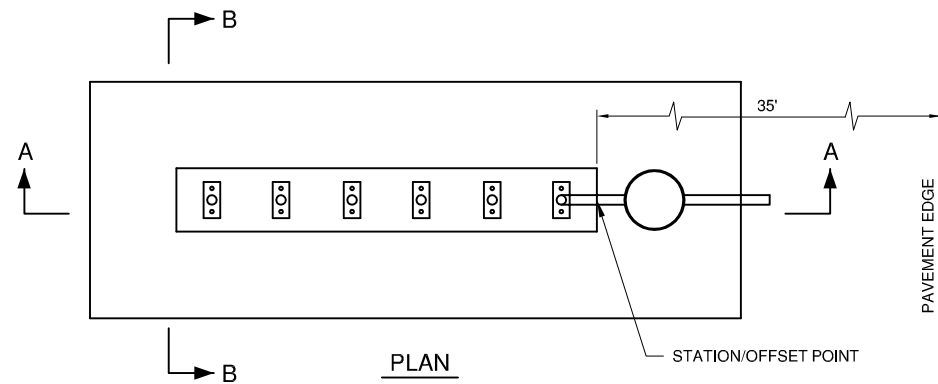
IL PROJ. NO. DNV-4229
 SBG PROJ. NO. 3-17-0032-B14

SIGNAGE SCHEDULE

SIGN #	SIDE	NEW SIGN LEGEND	WHITE ON RED BACKGROUND	WHITE WITH BLACK OUTLINE ON RED BACKGROUND	BLACK LEGEND ON YELLOW BACKGROUND	YELLOW LEGEND ON BLACK BACKGROUND	NUMBER OF CHARACTERS	NEW POWER CIRCUIT	NOTES	BASELINE	STATION	OFFSET
S1	NW SE	C 21-3 C		21-3		C C	5	RWY 3/21	NEW SIGN	TAXIWAY C	15+02.89	60.00' RT.
S2	NE	→B			→B		2	RWY 3/21	NEW SIGN	TAXIWAY C	13+42.71	72.35' RT.

NOTES

1. STATION AND OFFSET OF THE SIGN ARE GIVEN TO THE MIDDLE OF SIDE THAT LIES CLOSEST TO THE EDGE OF PAVEMENT (SEE DETAIL BELOW).

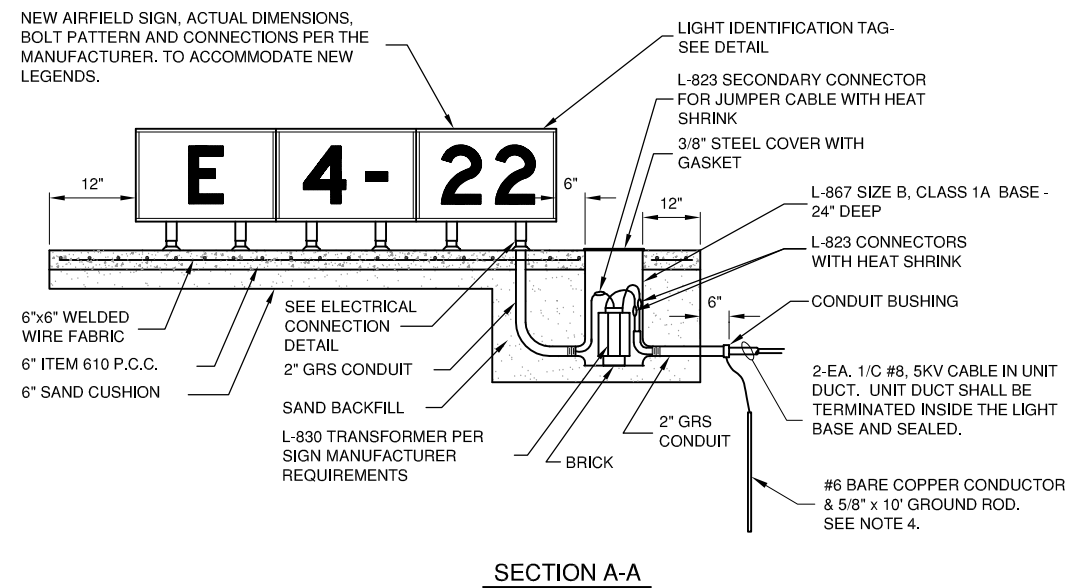


AIRFIELD SIGN NOTES

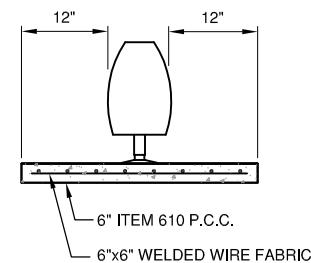
1. TRANSFORMER WATTAGE SHALL BE AS REQUIRED BY SIGN MANUFACTURER.
2. SIGN LEGEND SHALL BE AS SHOWN IN THE PLANS.
3. SIGNS SHALL BE SIZE 2, STYLE 2 OR 3, CLASS 2.
4. SEE "NEW BASE MOUNTED EDGE LIGHT" DETAIL FOR GROUNDING DETAILS.

NOTES

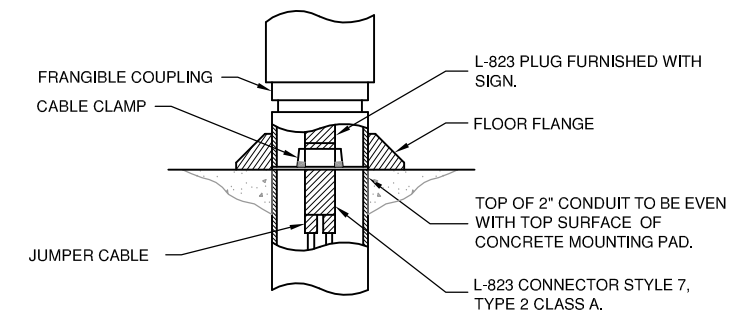
1. SIGN SCHEDULE IS SUBJECT TO FAA APPROVAL OF THE SIGNAGE PLAN.
2. CHANGES TO NEW LEGENDS MAY OCCUR SUBJECT TO 1 ABOVE.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH NEW LEGENDS FOR APPROVAL PRIOR TO STARTING MANUFACTURE.
4. EXISTING SIGNS ARE LUMACURVE.
5. RUNWAY 3/21 CIRCUIT IS STYLE 3 CIRCUIT.



SECTION A-A



SECTION B-B



ELECTRICAL CONNECTION DETAIL

N.T.S.

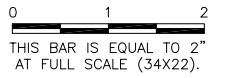
L-858 AIRFIELD SIGN DETAILS

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RELOCATE TAXIWAY C AND WIDEN FILLETS
 AIRFIELD SIGNAGE DETAIL

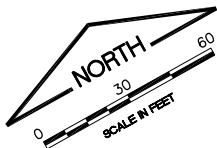
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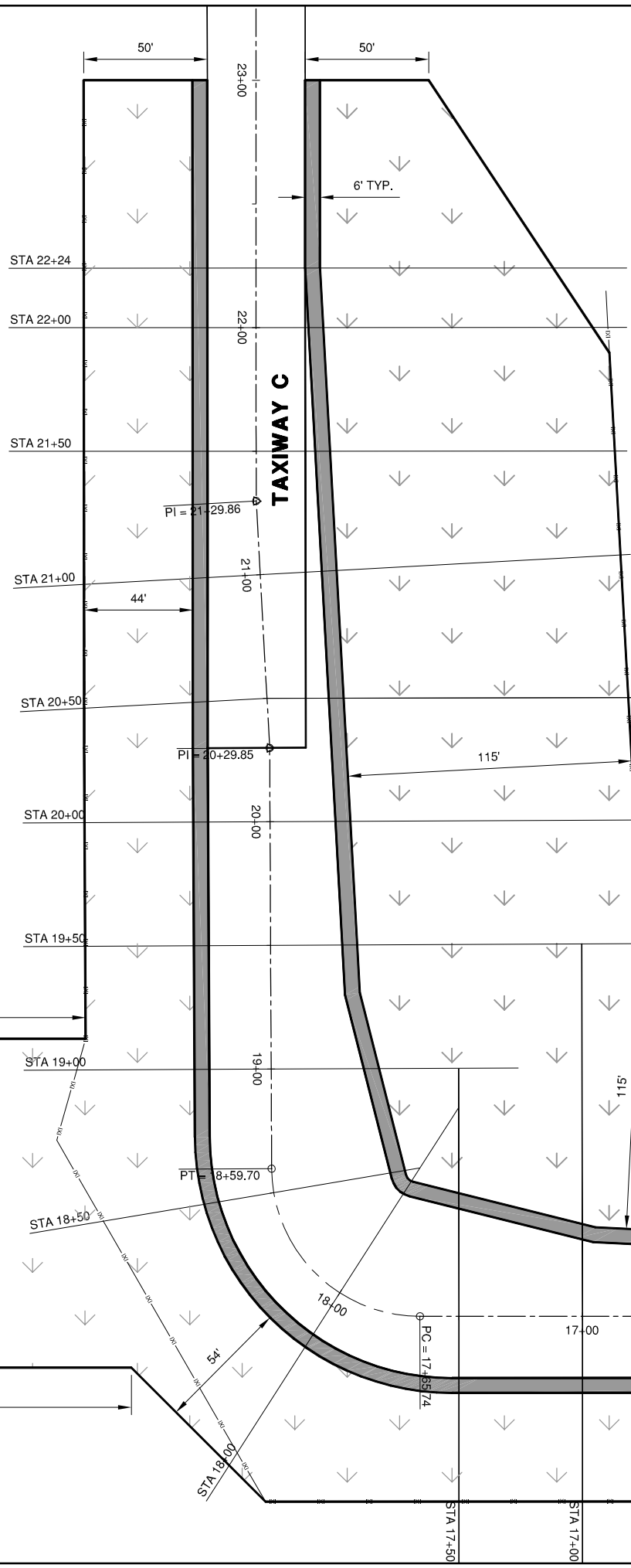


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T HANGAR TAXILANE



LEGEND

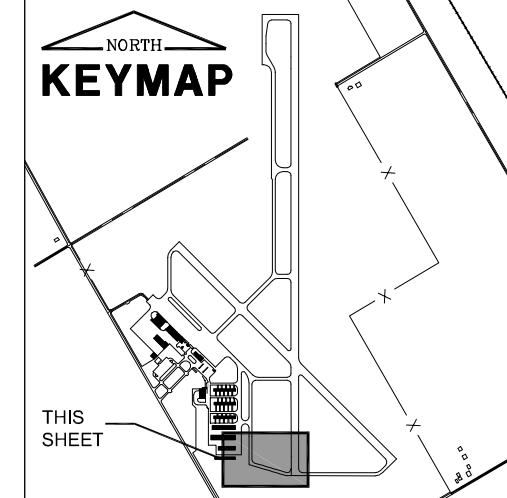
- NEW SOD LIMITS
- NEW SEEDING AND MULCHING LIMITS
- INLET PROTECTION
- STA 182+50 CROSS SECTION INDEX
- SILT FENCE

NOTE

1. AN ADDITIONAL QUANTITY OF 100 LF OF SILT FENCE, 500 SY OF EROSION CONTROL BLANKET, AND 100 SY OF SOD WHICH ARE NOT SHOWN ON THIS SHEET HAVE BEEN ADDED TO THE PLAN QUANTITIES TO BE PLACED AT THE DIRECTION OF THE RESIDENT ENGINEER AS NEEDED TO CONTROL AREAS OF CONCENTRATED STORMWATER FLOWS.
2. GRADING LIMITS SHALL BE AS SHOWN ON THE CROSS SECTION SHEETS. GRADING AND SEEDING LIMITS ARE NOT NECESSARILY THE SAME, IN SOME CASES SEEDING LIMITS HAVE BEEN EXTENDED PAST THE GRADING LIMITS. GRADING SHALL BE PAID FOR AS THE CROSS SECTIONS SHOW UNLESS OTHERWISE APPROVED BY THE ENGINEER.

EARTHWORK SUMMARY

STATION	STATION NUMBER	DISTANCE	AUTOCAD EXCAVATE END AREA	EXCAVATE END AREA (S.F.)	CUT VOLUME (C.Y.)	AUTOCAD EMBANK END AREA	EMBANK END AREA (S.F.)	FILL VOLUME (C.Y.)
Scale= 0.25								
TAXIWAY C								
13+04	1304.00	0.00	46.22	11.56	0.00	0.00	0.00	0.00
13+50	1350.00	46.00	178.90	44.73	47.94	4.40	1.10	0.94
14+00	1400.00	50.00	70.42	17.61	57.71	97.68	24.42	23.63
14+50	1450.00	50.00	172.33	43.08	56.19	100.67	25.17	45.91
15+00	1500.00	50.00	454.09	113.52	145.00	73.50	18.38	40.32
15+50	1550.00	50.00	530.10	132.53	227.82	62.56	15.64	31.50
16+00	1600.00	50.00	623.78	155.95	267.10	8.16	2.04	16.37
16+50	1650.00	50.00	745.93	186.48	317.06	45.27	11.32	12.37
17+00	1700.00	50.00	930.37	232.59	388.03	62.54	15.64	24.96
17+50	1750.00	50.00	948.40	237.10	434.90	20.02	5.01	4.63
18+00	1800.00	50.00	905.32	226.33	429.10	0.00	0.00	4.63
18+50	1850.00	50.00	968.67	242.17	433.79	0.00	0.00	0.00
19+00	1900.00	50.00	677.71	169.43	381.11	157.23	39.31	36.40
19+50	1950.00	50.00	377.21	94.30	244.19	9.82	2.46	38.67
20+00	2000.00	50.00	310.36	77.59	159.16	1.26	0.32	2.56
20+50	2050.00	50.00	275.76	68.94	135.68	0.75	0.19	0.47
21+00	2100.00	50.00	263.02	65.76	124.72	0.00	0.00	0.17
21+50	2150.00	50.00	138.01	34.50	92.83	0.00	0.00	0.00
22+00	2200.00	50.00	49.79	12.45	43.47	0.00	0.00	14.48
22+24	2224.00	24.00	37.43	9.36	9.69	0.00	0.00	0.00
TOTAL			8703.8	2176.0	3995.5	643.9	161.0	298.0



FILE: TURFPLAN.dwg
 UPDATE BY: Andrew Bodine
 PLOT DATE: 3/6/2013 2:43 PM

DNVBase_StatePlane
 1204201-C-7200
 BASE PROP.GEO
 Keymap

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NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22).

RUNWAY 3/21

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**RELOCATE TAXIWAY C AND WIDEN FILLETS
 TURFING PLAN & INDEX TO CROSS SECTIONS**

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SBG PROJ. NO.	3-17-0032-B14
SHEET	23 OF 27 SHEETS

K:\Dmerville\12042010\Draw\Sheets

VE048

REVISIONS		
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34X22).

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 VERMILION REGIONAL AIRPORT AUTHORITY
 DANVILLE, ILLINOIS

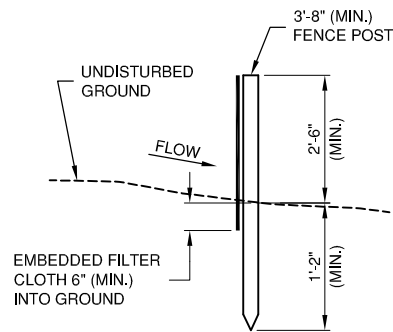
RELOCATE TAXIWAY C AND WIDEN FILLETS
 EROSION CONTROL DETAILS

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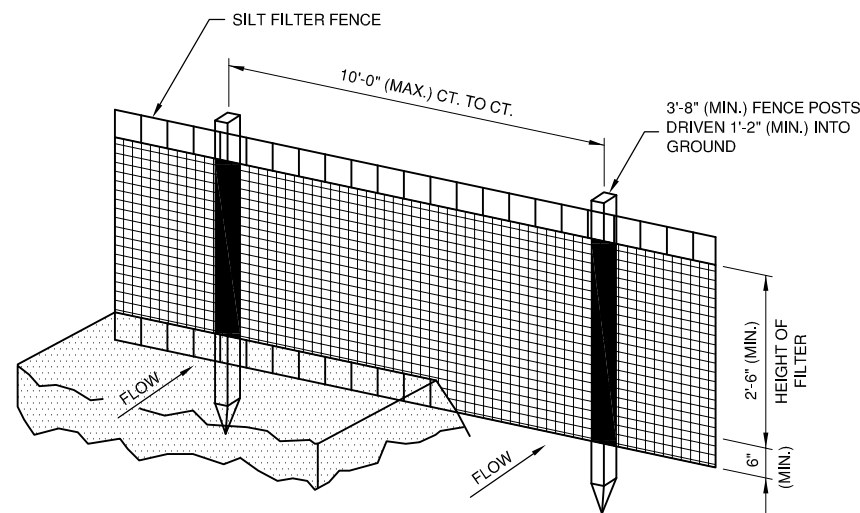


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SECTION



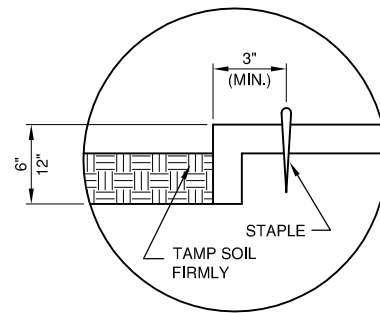
PERSPECTIVE VIEW

EROSION CONTROL FABRIC FENCE DETAILS

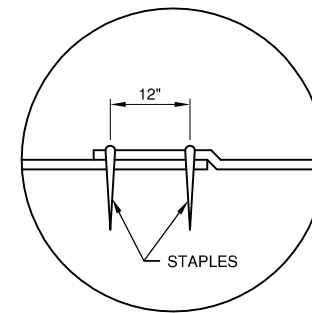
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EROSION CONTROL FABRIC FENCE NOTES

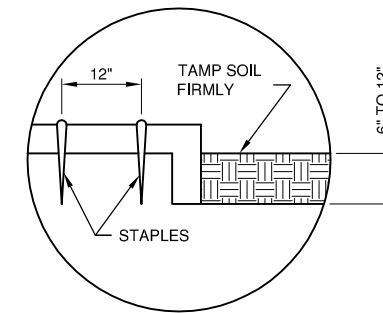
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 2'-0" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" MINIMUM AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. MAINTENANCE, WHICH INCLUDES THE REPLACEMENT OF DAMAGED FENCE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE EROSION CONTROL FENCE.



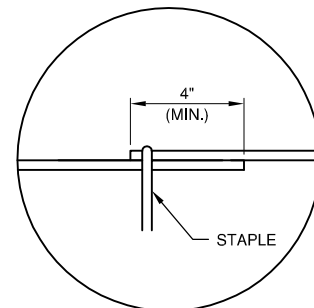
DETAIL 1 - TERMINAL FOLD



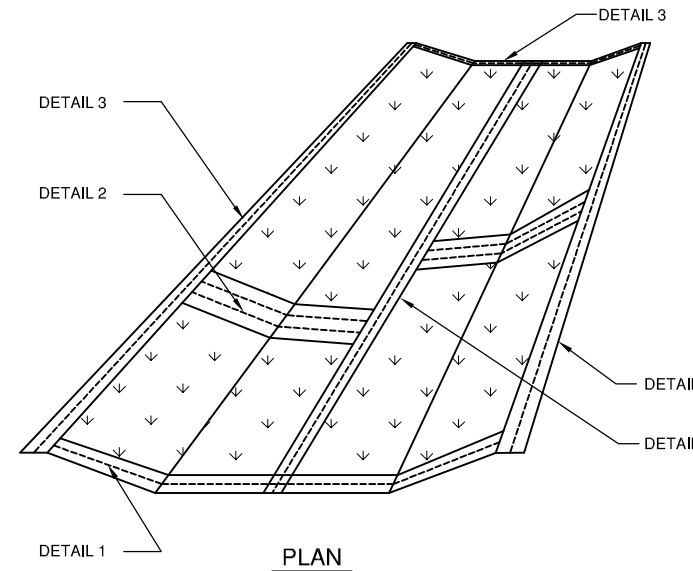
DETAIL 2 - JUNCTION SLOT



DETAIL 3 - ANCHOR SLOT



DETAIL 4 - LAP JOINT



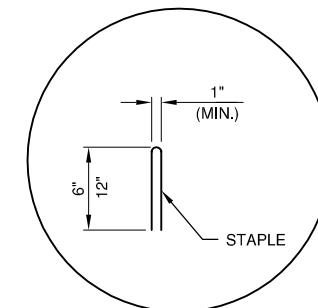
PLAN

EXCELSIOR BLANKET DETAILS

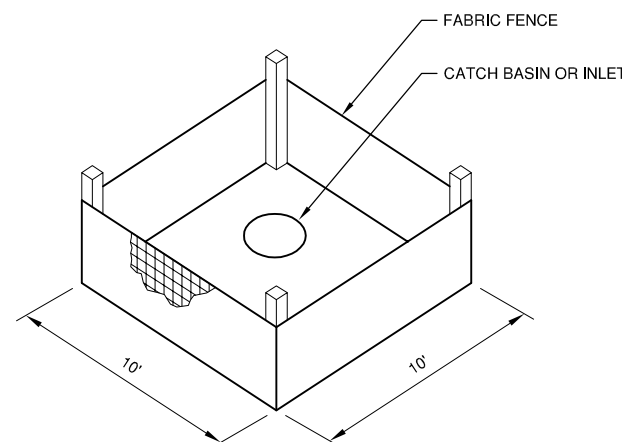
N.T.S.

EXCELSIOR BLANKET NOTES

1. STAPLES TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART.
2. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
3. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

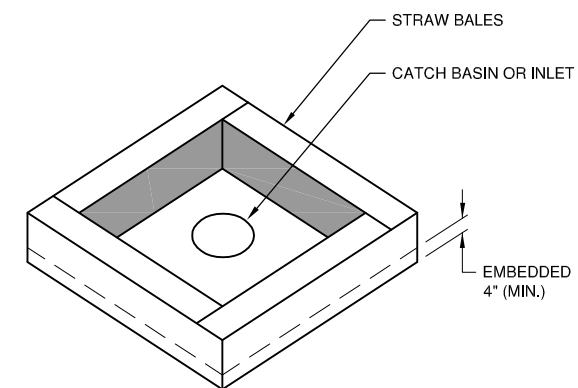


DETAIL 5 - STAPLE DETAIL



INLET PROTECTION WITH FABRIC

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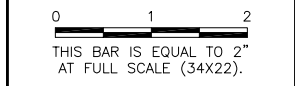


INLET PROTECTION WITH STRAW BALES

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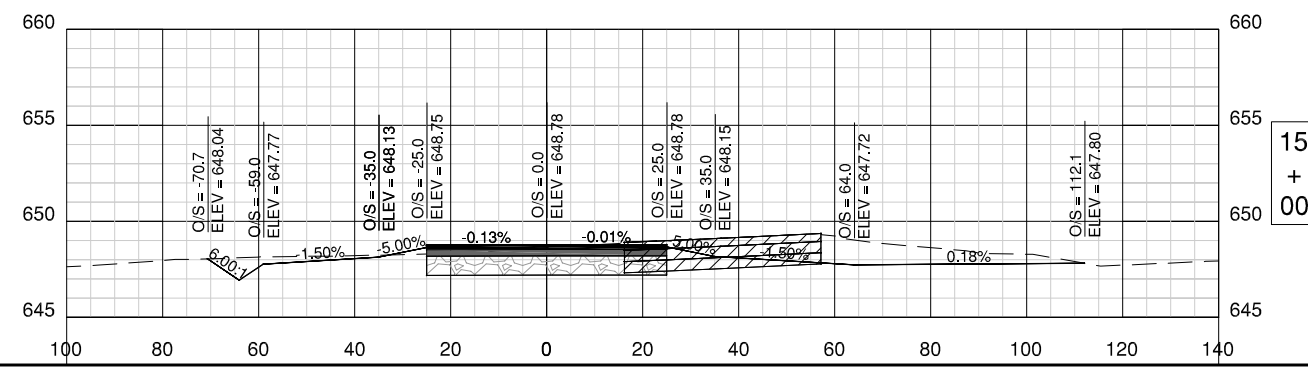
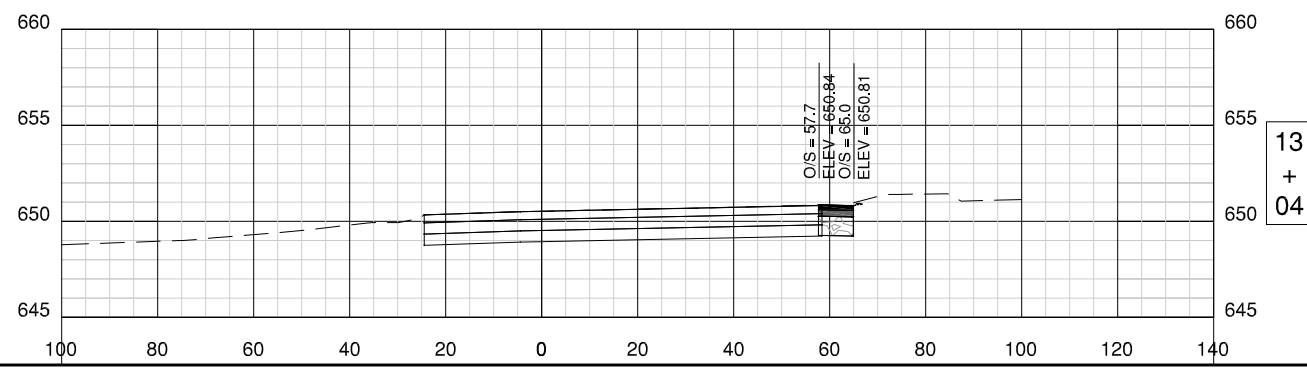
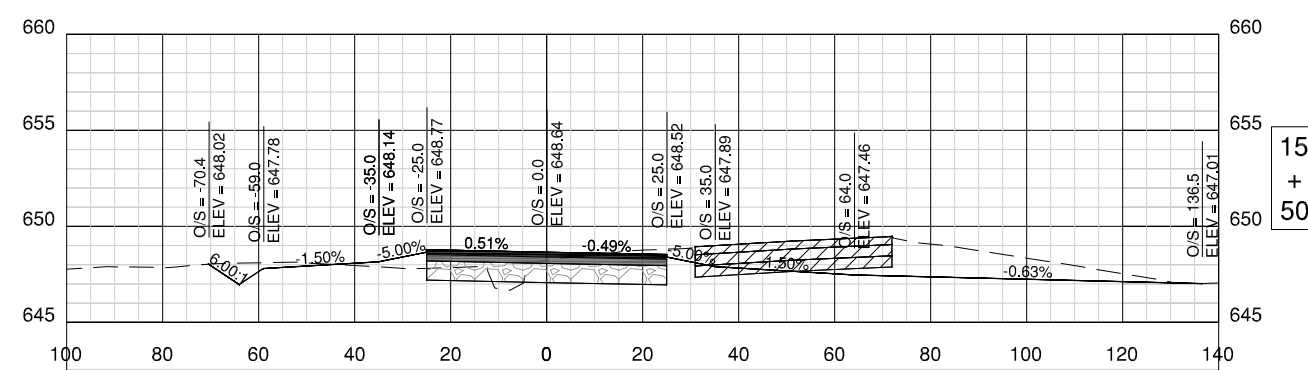
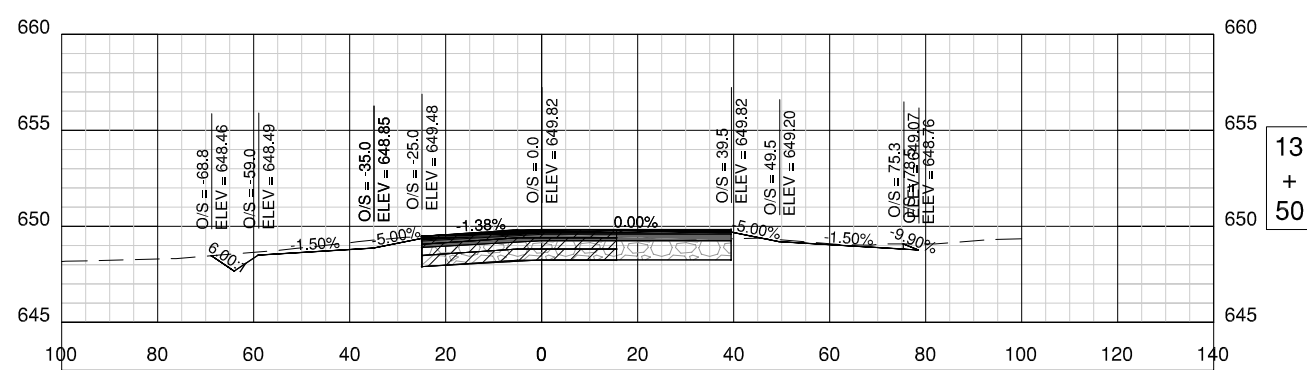
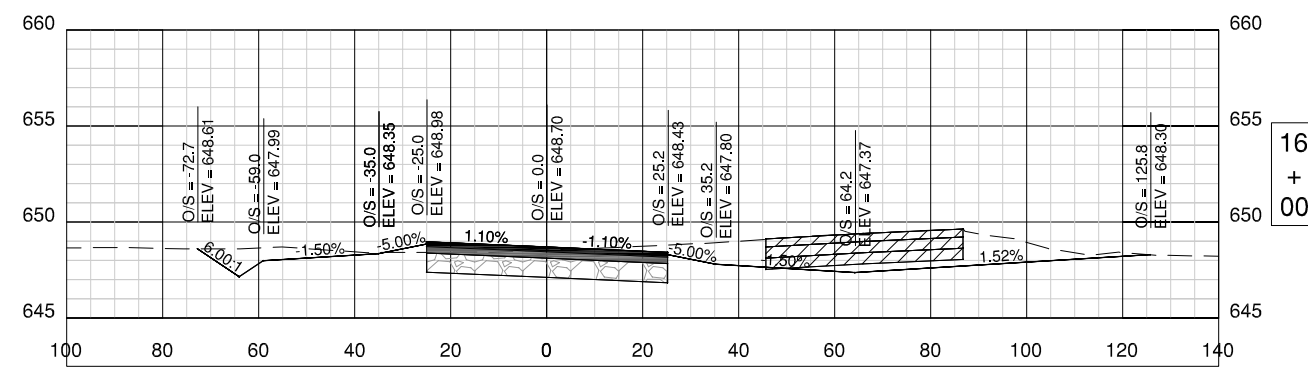
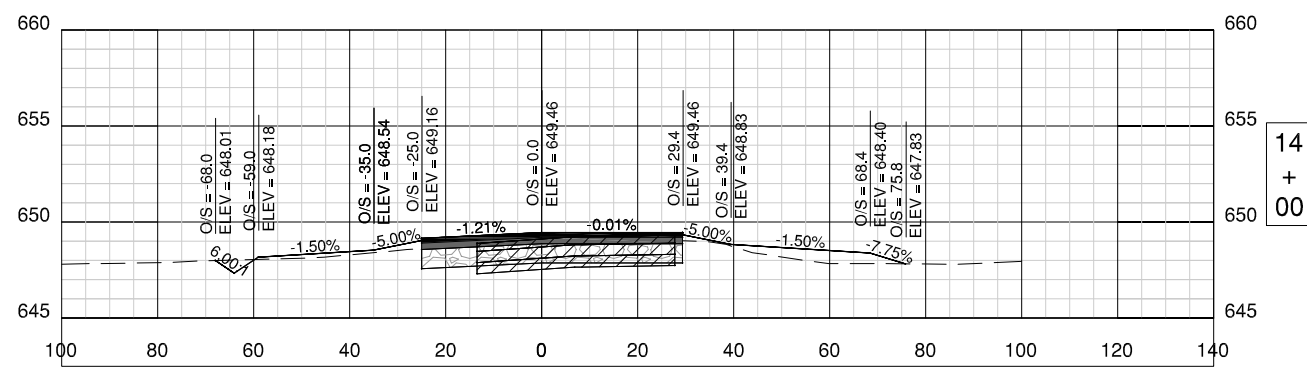
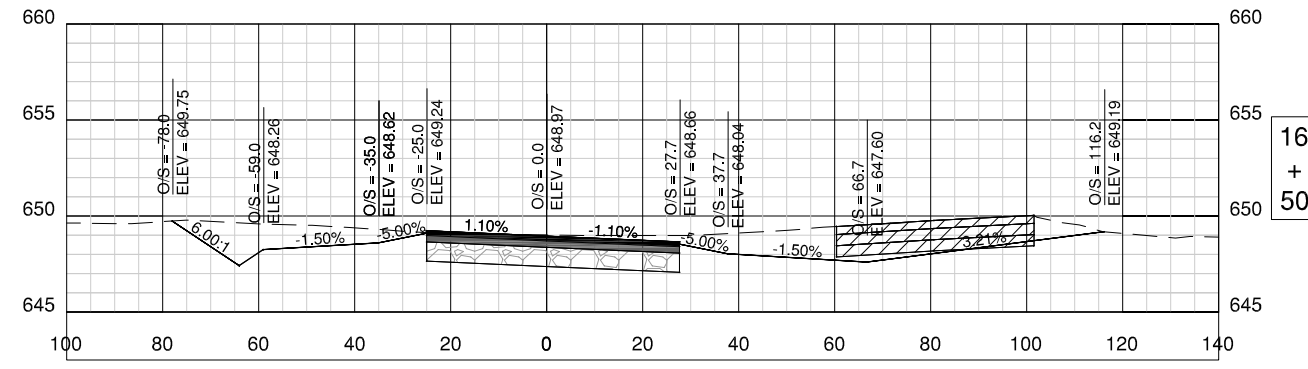
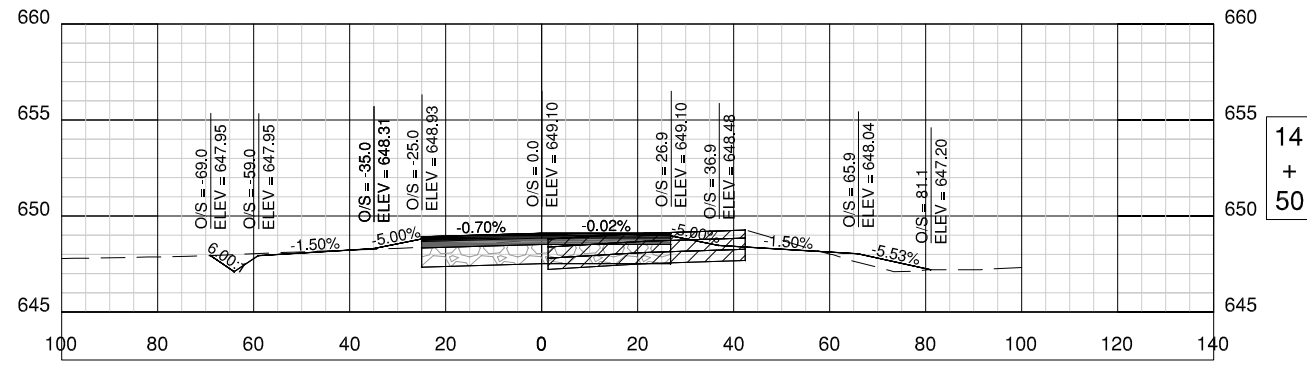
**RELOCATE TAXIWAY C AND WIDEN FILLETS
 TAXIWAY C CROSS SECTIONS 1**

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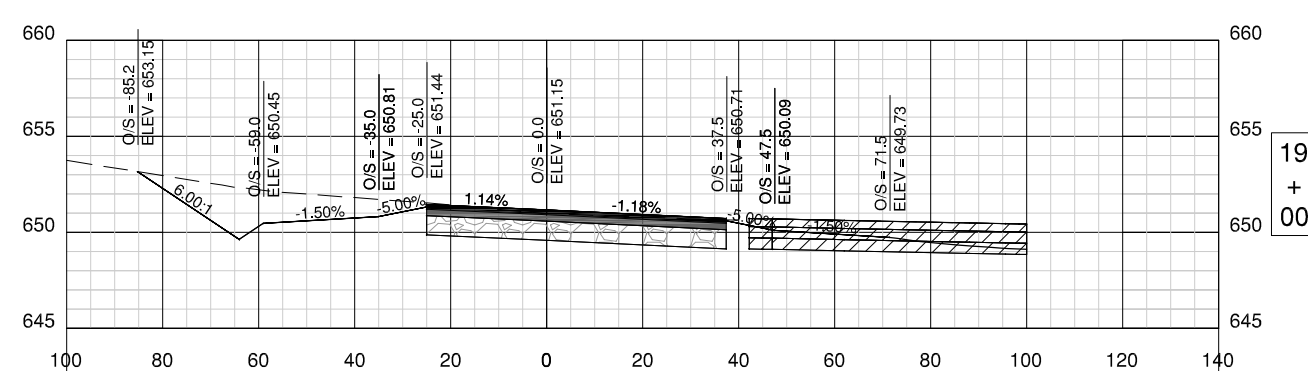
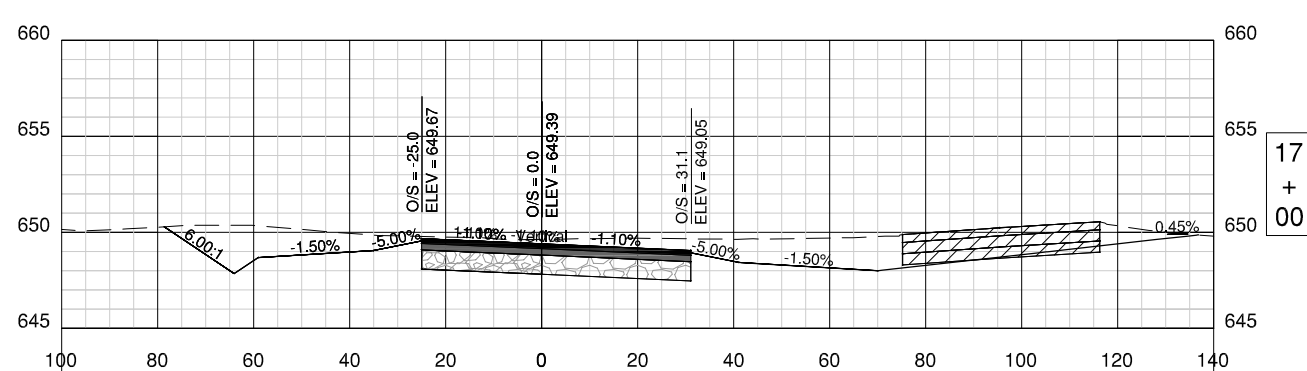
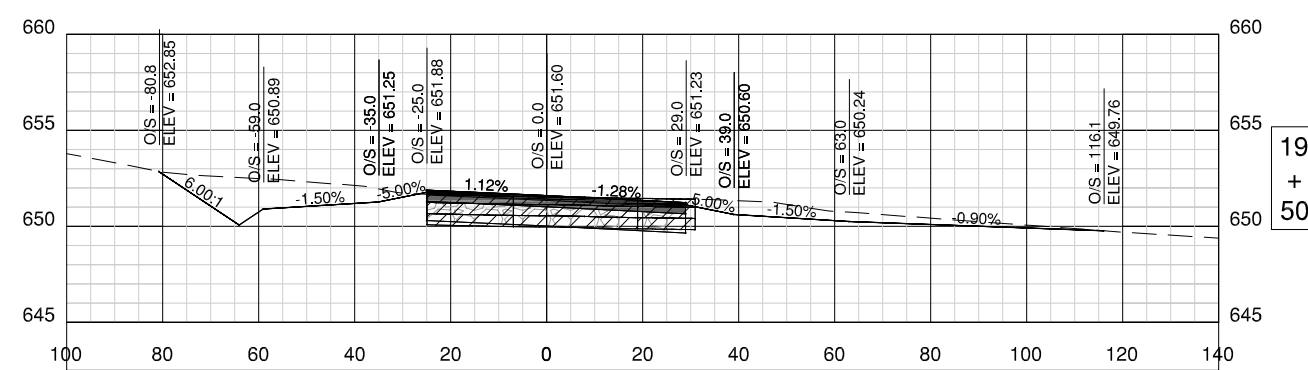
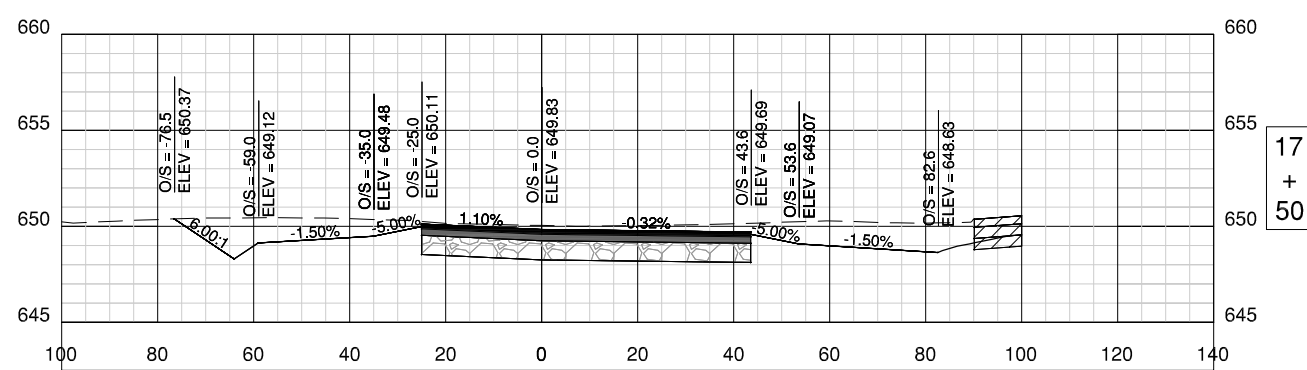
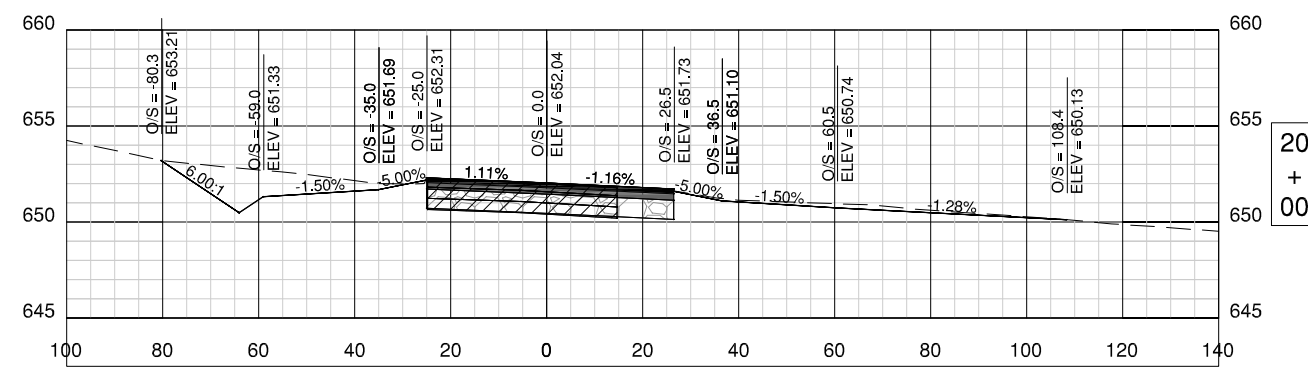
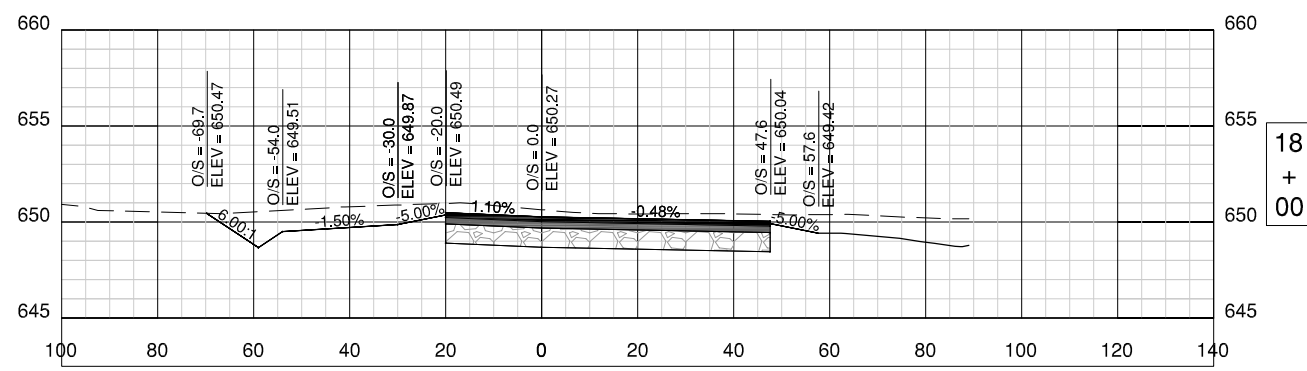
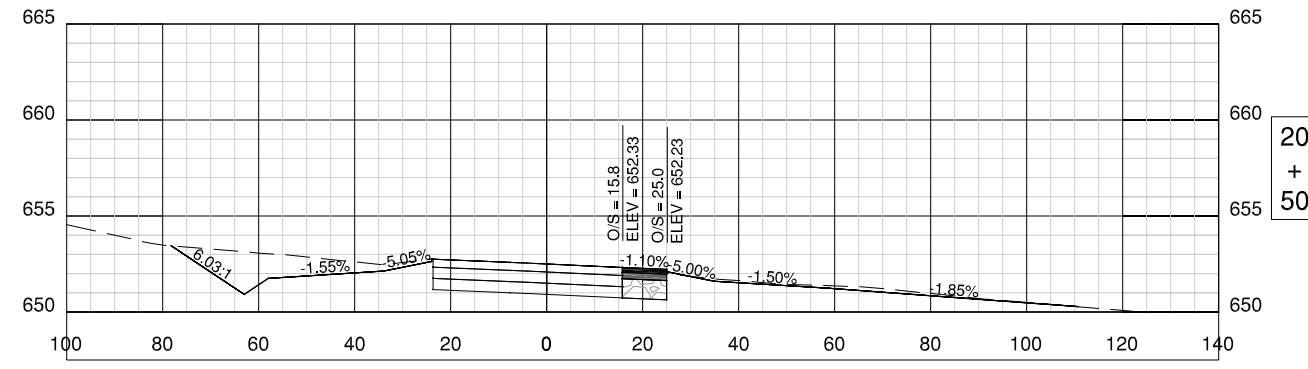
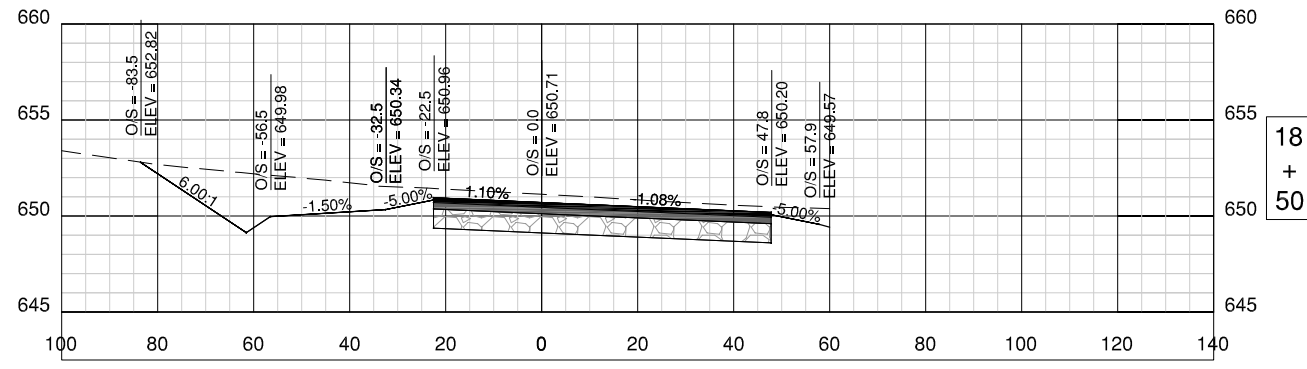
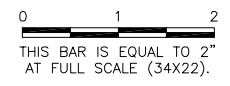
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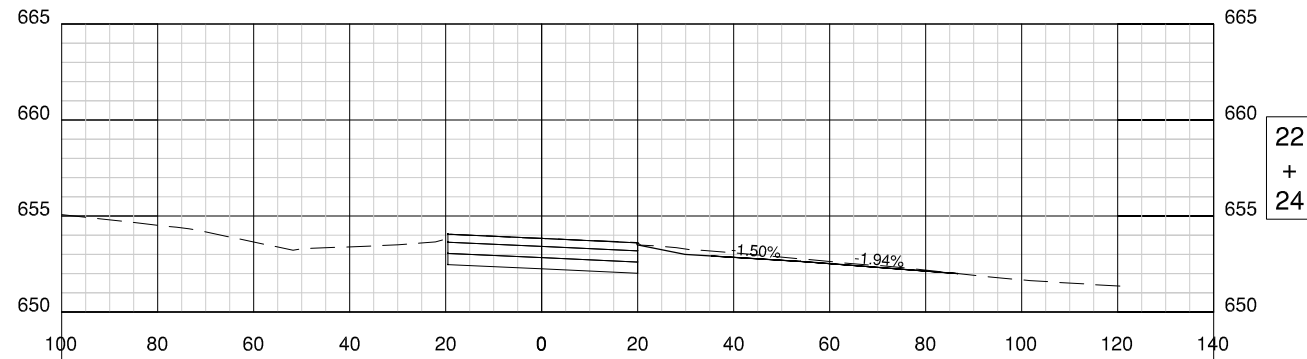
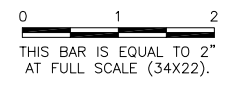
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 TAXIWAY C CROSS SECTIONS 2**

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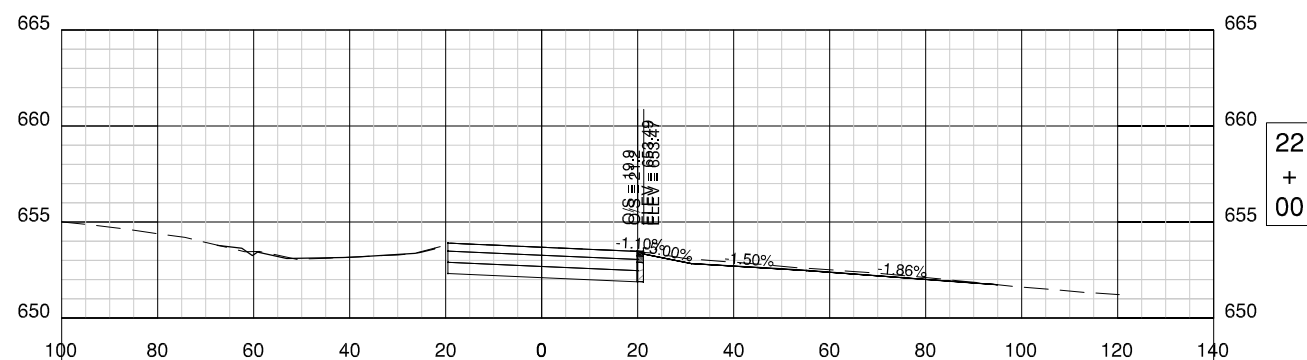
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SHEET	26 OF 27 SHEETS

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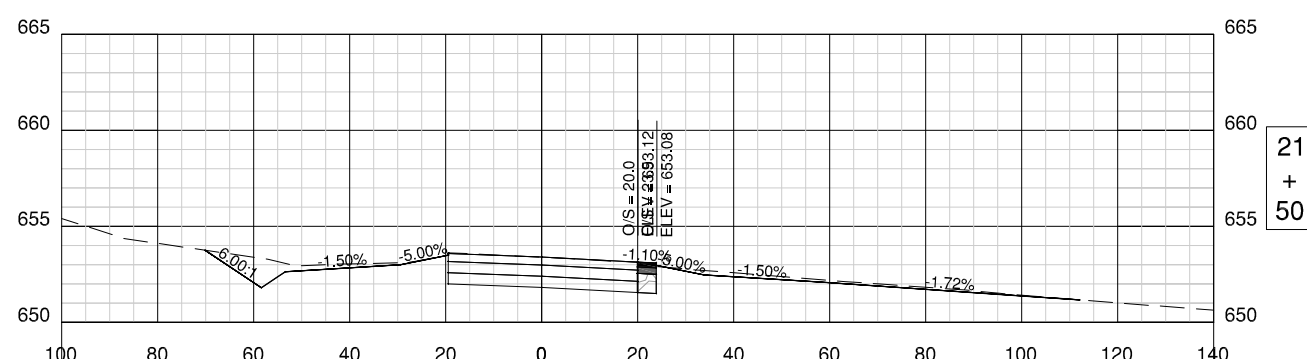
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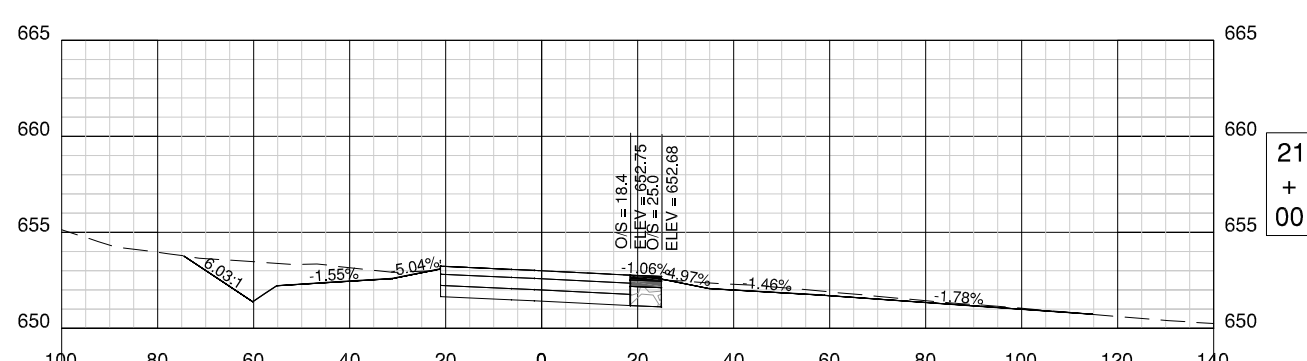
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RELOCATE TAXIWAY C AND WIDEN FILLETS
 TAXIWAY C CROSS SECTIONS 3

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SHEET	27 OF 27 SHEETS