

LAKE IN THE HILLS AIRPORT LAKE IN THE HILLS, ILLINOIS

FINAL CONSTRUCTION PLANS FOR LAKE IN THE HILLS AIRPORT IMPROVE RUNWAY 8/26 SAFETY AREA

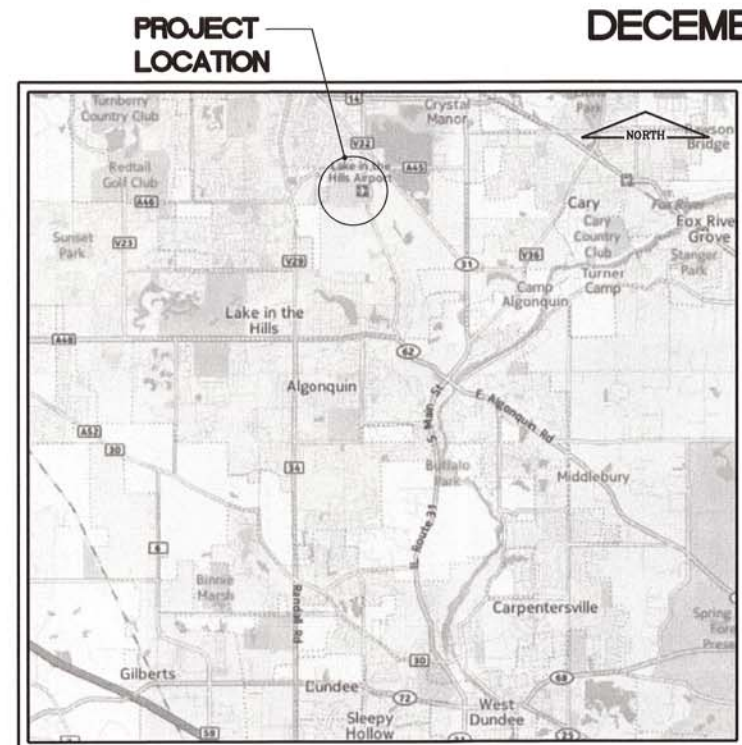
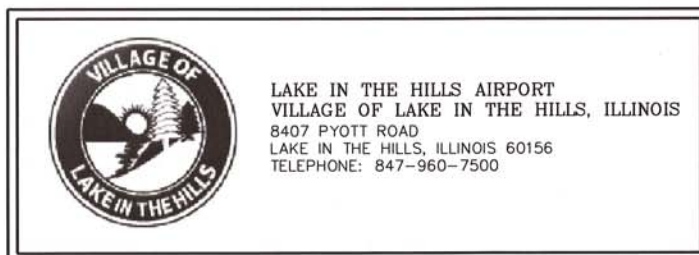
ILLINOIS PROJECT: 3CK-4404
 S.B.G. PROJECT: 3-17-SBGP-XX

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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

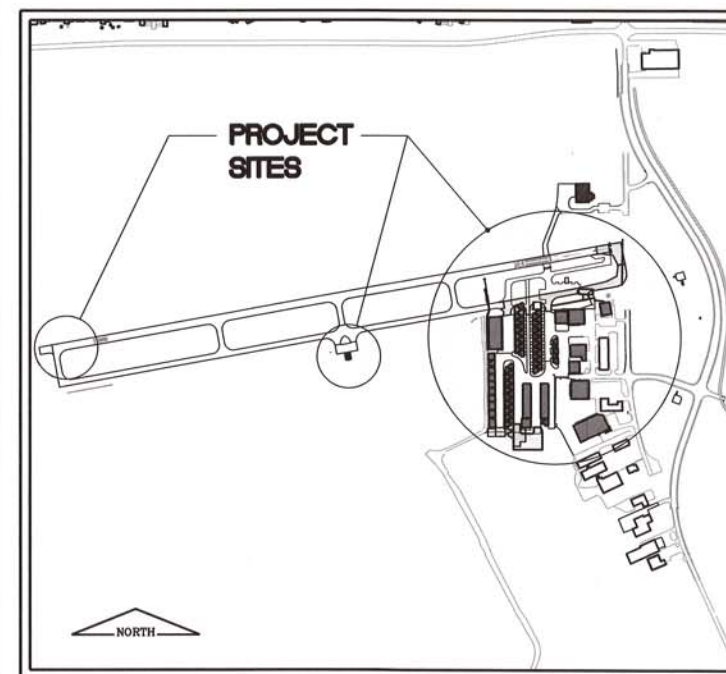
THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE. SUFFICIENT OR COMPLETE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND 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.



LOCATION MAP

DECEMBER 3, 2015



SITE PLAN

CALL J.U.L.I.E. BEFORE
 EXCAVATING AT 811 LAKE IN THE
 HILLS AIRPORT

TOWNSHIP: T 43 N
 RANGE: R 8 E
 SECTION: 17
 COUNTY: MCHENRY TOWNSHIP:
 ALGONQUIN

DESIGN INFORMATION

DESIGN AIRCRAFT APPROACH CATEGORY B
 DESIGN AIRCRAFT GROUP II (CITATION EXCEL)

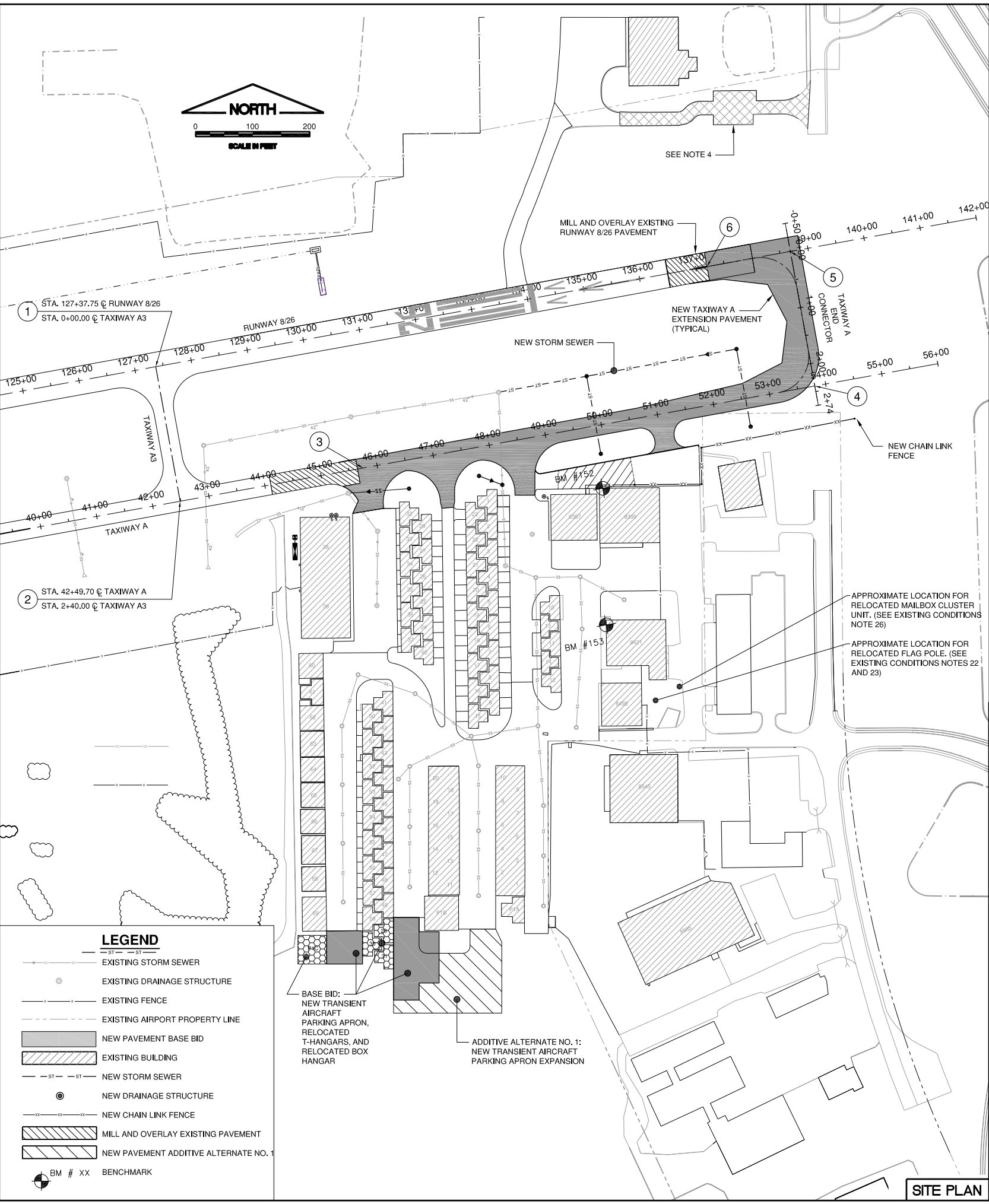
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613



SUBMITTED BY *Daniel L. Pape*
 DANIEL L. PAPE, P.E.

DATE DECEMBER 3 2015

REFERENCE: CMT NCS TRM
 LITH BASE TYP A LENDING
 IMAGE FILES: CMT 3C cmtk.jpg
 CMT_base_cmtk.jpg
 LITH 03/09
 UPDATE BY: Jim O'Hee
 LAYOUT: Site Plan
 DATE: Tuesday, December 9, 2015 12:08:43 PM
 FILE: K:\del\TheHills\1425501_TypExtension\DrawSheets\Planning\Plan\Site Plan.dwg



NOTES

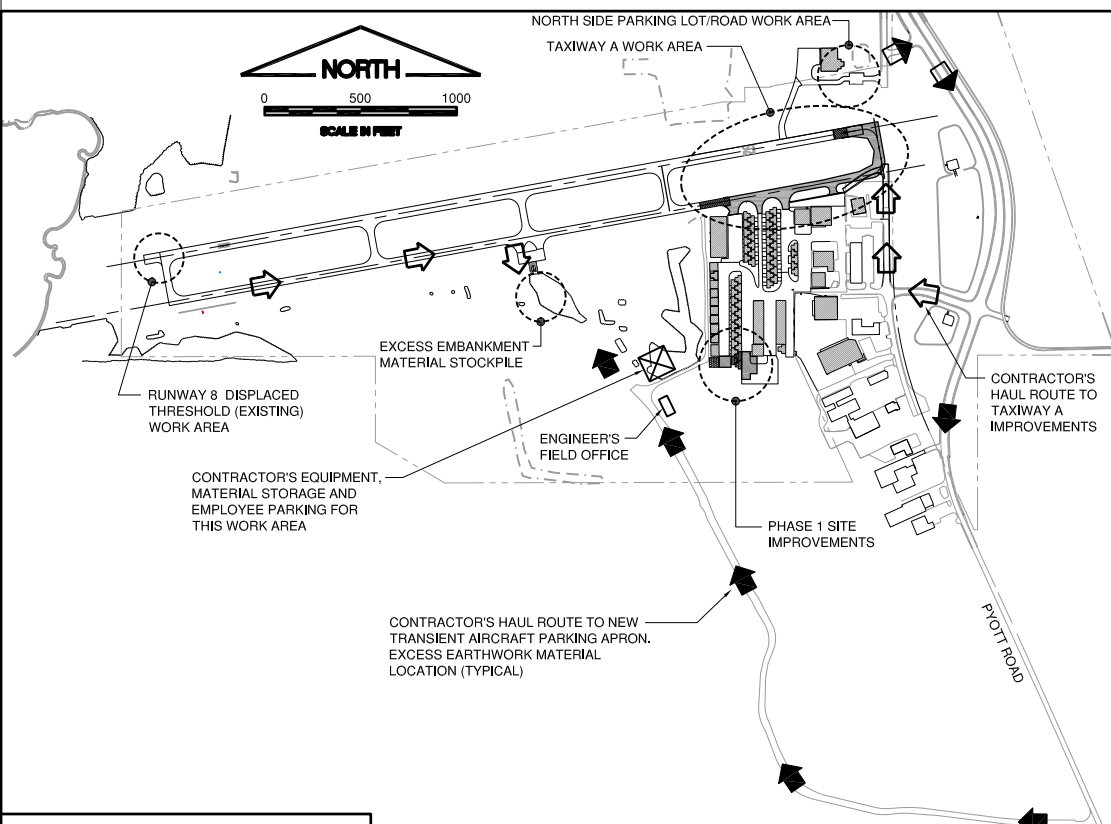
1. THE NEW PAVEMENT STRUCTURE AND ALL EXISTING PAVEMENTS WERE DESIGNED FOR EXCLUSIVE USE BY SMALL AIRCRAFT. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE PAVEMENT STRUCTURE AND SUBGRADE FROM DAMAGE, WHICH MAY INCLUDE BUT NOT BE LIMITED TO USE OF TRACKED EQUIPMENT, SHORT HAUL TRUCKS OR TRACKED PAVERS.
2. AT ALL TIMES THE CONTRACTOR SHALL PERFORM ALL MAINTENANCE WORK NECESSARY TO KEEP EACH NEWLY CONSTRUCTED PAVEMENT SECTION LAYER IN A SATISFACTORY CONDITION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE DONE BY HIS HAULING AND CONSTRUCTION EQUIPMENT ON EXISTING AND NEW PAVEMENTS. ANY WORK NECESSARY TO CORRECT DAMAGED WORK SHALL BE PERFORMED BY THE CONTRACTOR AND AT THE EXPENSE OF THE CONTRACTOR.
4. EXISTING PARKING LOT/ENTRANCE ROAD PAVEMENT AND CURB TO BE REMOVED AND REPLACED WITH TOPSOIL.

VERTICAL CONTROL TABLE (NAVD 88)

| BENCHMARK # | DESCRIPTION | ELEVATION |
|-------------|---|-----------|
| 152 | NGS PID NUMBER NH0152 NAVD 88 (ADJUSTED 6/1991) SET VERTICALLY IN THE NORTH FACE OF THE NORTHWEST CORNER OF THE CONCRETE FOUNDATION OF THE NORTH ONE OF TWO LARGE CONCRETE BLOCK HANGARS, 1-1/2 FEET EAST OF THE NORTHWEST CORNER, 1 FOOT ABOVE THE LEVEL OF THE GROUND, AND ABOUT LEVEL WITH THE ENTRANCE DRIVE. | 886.80 |
| 153 | NGS PID NUMBER NH0153 NAVD 88 (ADJUSTED 6/1991) SET VERTICALLY IN THE WEST FACE OF THE NORTHWEST CORNER OF THE CONCRETE FOUNDATION OF THE SOUTH ONE OF TWO LARGE CONCRETE BLOCK HANGARS, 1 FOOT SOUTH OF THE NORTHWEST CORNER, AND 1/2 FOOT ABOVE THE LEVEL OF CONCRETE RAMP. | 886.58 |

HORIZONTAL CONTROL (NAD 83)

| POINT | DESCRIPTION | NORTHING | EASTING | STATION/OFFSET |
|-------|----------------------------------|--------------|-------------|---------------------------|
| 1 | RUNWAY 8/26 AND TAXIWAY A3 | 2018103.2830 | 987873.0180 | STA 45+75.18 TAXIWAY A |
| 2 | TAXIWAY A AND TAXIWAY A3 | 2017867.1490 | 987915.9170 | STA 53+80.67 TAXIWAY A |
| 3 | BEGINNING OF PROPOSED TAXIWAY A | 2017925.4900 | 988237.0510 | STA 45+75.18 TAXIWAY A |
| 4 | TWY A AND TWY A END CONNECTOR | 2018069.4700 | 989029.5690 | STA 53+80.67 TAXIWAY A |
| 5 | RWY 8/26 AND TWY A END CONNECTOR | 2018305.6050 | 988986.6690 | STA 138+68.72 RUNWAY 8/26 |
| 6 | END OF PROPOSED PAVEMENT | 2018279.0210 | 988840.3390 | STA 137+20.00 RUNWAY 8/26 |
| 6712 | NGS PID DN6712 (NOT SHOWN) | 2017968.1600 | 989135.8500 | - |
| 6713 | NGS PID DN6713 (NOT SHOWN) | 2016897.8900 | 988201.9300 | - |
| 6714 | NGS PID DN6714 (NOT SHOWN) | 2016381.6500 | 989443.5300 | - |



SITE PLAN CONTRACTOR'S HAUL ROUTES

IL CONTRACT: **LK012**
 IL LETTING ITEM: **4A**
 IL PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # BOOK # 1263

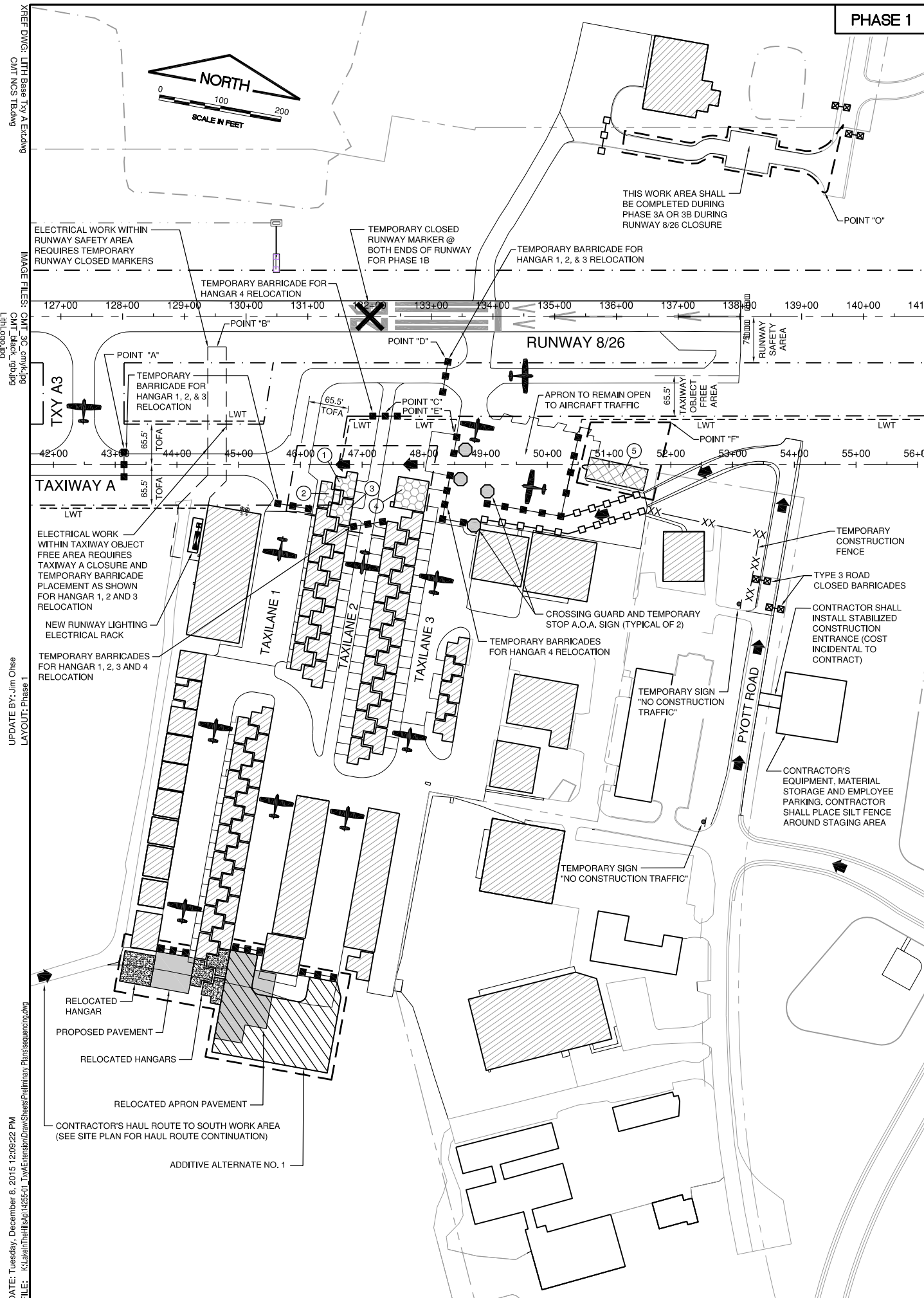
| REVISIONS | | |
|-----------|----|------|
| NUMBER | BY | DATE |
| | | |
| | | |
| | | |

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

**LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA**

**SITE PLAN AND
 HORIZONTAL/VERTICAL CONTROL**

DESIGN BY: TMS
 DRAWN BY: JRO
 CHECKED BY: DKP
 APPROVED BY: DLP
 DATE: 12/03/2015
 JOB No: 14255-01



| WORK AREA | ALLOWABLE WORK PERIOD | OPERATION STATUS/RESTRICTIONS |
|---|--|---|
| PHASE 1 A NEW APRON AREA AND HANGAR SITEWORK | NO RESTRICTIONS | RUNWAY 8/26 - OPEN ALL TAXIWAY A AND TAXILANES - OPEN PARTIAL CLOSURE OF APRON |
| PHASE 1 A RELOCATE RUNWAY LIGHTING CIRCUIT OUTSIDE RSA | NO RESTRICTIONS | RUNWAY 8/26 - OPEN; PARTIAL CLOSURE OF TAXIWAY A FOR WORK WITHIN TAXIWAY A TOFA |
| PHASE 1 B RELOCATE RUNWAY LIGHTING CIRCUIT WITHIN RSA | 1 WORK DAY FROM 8:00 AM TO 4:00 PM | RUNWAY 8/26 - CLOSED |
| PHASE 1 C DEMOLITION OF ADMINISTRATION BUILDING | BEING WORK AFTER RUNWAY 8/26 LIGHTING CIRCUIT IS OPERATIONAL | RUNWAY 8/26 - OPEN; PARTIAL CLOSURE OF APRON |
| PHASE 1 D RELOCATE HANGARS VIA TAXILANE 1, 2 & 3 | BEGIN WORK AFTER ALL RELOCATED HANGAR SITEWORK, FLOORS, FOUNDATIONS, AND UTILITY SERVICES ARE COMPLETED. NOTIFY AIRPORT MANAGER AND ENGINEER 30 DAYS ADVANCE NOTICE FOR COORDINATION WITH BUILDING TENANTS | RUNWAY 8/26 OPEN PARTIAL CLOSURE OF TAXIWAY A FOR HANGAR 1, 2, & 3 RELOCATION A MINIMUM OF ONE TAXILANE SHALL REMAIN OPEN AT ALL TIMES |

PRIOR TO REOPENING A CLOSED RUNWAY, THE ENTIRE (RSA) RUNWAY SAFETY AREA (75 FEET FROM CENTERLINE AND INCLUDING BEYOND THE END OF THE RUNWAY WITHIN AIRPORT PROPERTY) AND (TOFA) TAXIWAY OBJECT FREE AREA MUST MEET FAA CRITERIA. FAA CRITERIA REQUIRES THAT THERE BE NO OPEN EXCAVATIONS OR TRENCHES IN THE SAFETY AREA(S). THE MAXIMUM PAVEMENT DROP OFF BE 3 INCHES, AND ALL GRADES IN ANY DIRECTION BE LESS THAN 5 PERCENT. STEEL PLATES, TEMPORARY WEDGING OF BASE COURSE AND BITUMINOUS CONCRETE MAY BE REQUIRED TO MEET CRITERIA. ALL NECESSARY TEMPORARY MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

ALL PHASES:
CONTRACTOR SHALL PLAN AND PERFORM HIS WORK SO AS NOT TO INTERFERE OR HINDER THE PROGRESS, WORK OR HAUL ROAD ACCESS OF OTHER CONTRACTORS (SEE STANDARD SPECIFICATIONS SECTION 50-05). THE PRIME CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE CONSTRUCTION ACTIVITIES AND ACCESS BETWEEN ALL ON-SITE CONTRACTORS SUBCONTRACTORS.

ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS ACCEPTABLE TO THE RESIDENT ENGINEER AND AIRPORT MANAGER. ALL TEMPORARY CABLING AND SPLICING NECESSARY TO KEEP THE CIRCUITS IN OPERATION SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.

| PARAMETER | VALUE |
|--|----------------|
| RUNWAY | 8/26 |
| APPROACH CATEGORY | B |
| DESIGN GROUP | II |
| DESIGN AIRCRAFT | CITATION EXCEL |
| WINGSPAN | 55.7' |
| TAIL HEIGHT | 17.2' |
| AOA @ RUNWAY SAFETY AREA WIDTH (RSA) | 150' |
| RUNWAY OBJECT FREE AREA WIDTH (ROFA) | 500' |
| TAXIWAY SAFETY AREA WIDTH (TSA) | 79' |
| AOA @ TAXIWAY OBJECT FREE AREA WIDTH (TOFA) | 131' |
| AOA @ TAXILANE OBJECT FREE AREA WIDTH (TOFA) | 115' |

NOTE: AOA - AIR OPERATIONS AREA

IL CONTRACT: **LK012**
IL LETTING ITEM: **4A**
IL PROJECT: **3CK-4404**
S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # **BOOK # 1263**
REVISIONS
NUMBER BY DATE

LAKE IN THE HILLS AIRPORT
LAKE IN THE HILLS, ILLINOIS
IMPROVE RUNWAY 8/26 SAFETY AREA

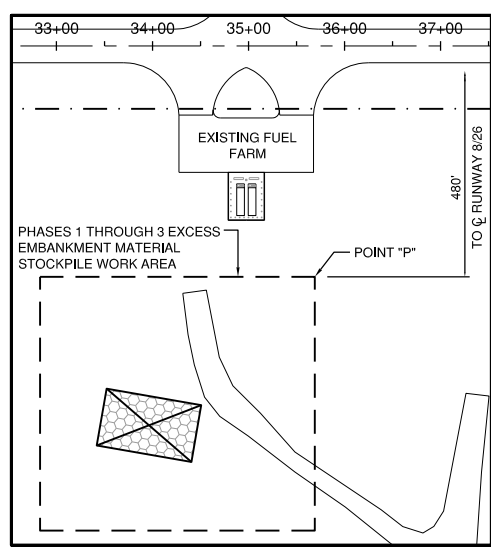
SEQUENCE OF CONSTRUCTION
PHASE 1

| | |
|---------------------------|---|
| [Dashed Box] | CONTRACTOR'S WORK AREA |
| [Solid Line] | EXISTING AIRPORT PROPERTY LINE |
| [Line with 'x'] | EXISTING FENCE |
| [Line with 'AOA'] | AIR OPERATIONS AREA (A.O.A.) LIMITS |
| [Line with 'x' and 'AOA'] | ACTIVE RUNWAYS: USE RUNWAY SAFETY AREA |
| [Line with 'x' and 'AOA'] | ACTIVE TAXIWAYS: USE TAXIWAY OBJECT FREE AREA |
| [Line with 'x' and 'AOA'] | ACTIVE TAXILANES: USE TAXILANE OBJECT FREE AREA |
| [Aircraft Icon] | AIRCRAFT OPERATIONS AREAS |
| [Type II Barricade] | TYPE II BARRICADES WITH RED LIGHTS |
| [Type III Barricade] | TYPE III ROAD CLOSED BARRICADES WITH SIGNAGE |
| [Low Profile Barricade] | LOW PROFILE BARRICADES WITH RED LIGHTS AND SIGNS "DO NOT ENTER" AND "AIRCRAFT MOVEMENT AREA" |
| [Arrow] | CONTRACTOR'S ACCESS/HAUL ROAD |
| [X] | TEMPORARY CLOSED RUNWAY MARKER |
| [Circle] | CROSSING GUARD AND TEMPORARY STOP-AOA SIGN (SEE NOTE 1) |
| [Dashed Line] | LATHING AND WARNING TAPE |
| [Hatched Box] | BUILDING TO BE RELOCATED |
| [Cross-hatched Box] | BUILDING TO BE DEMOLISHED |
| [Line with 'XX'] | TEMPORARY CONSTRUCTION FENCE |
| [Circle with 2] | BUILDING NUMBER FOR REFERENCE |

- SUGGESTED SEQUENCE OF CONSTRUCTION**
- PROVIDE ENGINEER'S FIELD OFFICE AND CONTRACTOR'S EQUIPMENT STORAGE AND PARKING AREA.
 - COORDINATE CLOSURES WITH RESIDENT ENGINEER AND AIRPORT MANAGER.
 - PLACE BARRICADES AND INSTALL LATHING AND WARNING TAPE AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 - MEGGAR EXISTING AIRFIELD CABLES.
 - CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND CONSTRUCTION SIGNS ON PYOTT ROAD.
 - PLACE TEMPORARY EROSION CONTROL ITEMS OF WORK.
 - CONSTRUCT RELOCATED TRANSIENT APRON AND HANGAR APRON PAVEMENT.
 - INSTALL NEW RUNWAY LIGHTING SYSTEM CABLING, TIE-IN AND ELECTRICAL RACK TO MAINTAIN RUNWAY LIGHTING (SEE NOTE 2)
 - DEMOLISH AIRPORT ADMINISTRATION BUILDING.
 - RELOCATE HANGAR TYPE A AND HANGARS TYPE B.
 - TOPSOIL AND SEED/MULCH.
 - INSTALL TEMPORARY SIGNAGE ON TAXILANES ROUTING AIRCRAFT TO SOUTH TRANSIENT APRON.
 - CLEAN PAVEMENTS/REMOVE BARRICADES/OPEN SOUTH TRANSIENT APRON PAVEMENT/COMMISSION HANGARS FOR TENANT USE.

- CONTRACTOR'S CONSTRUCTION ENTRANCE NOTES**
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT AND DEBRIS ONTO PUBLIC RIGHT-OF-WAYS. ALL SEDIMENT AND DEBRIS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
 2. CONTRACTOR SHALL FURNISH CONSTRUCTION SIGNS ON PYOTT ROAD AS SHOWN OR AS REQUIRED BY MCHENRY COUNTY D.O.T. COST OF SIGNS SHALL BE INCIDENTAL TO THE CONTRACT.
 3. COST OF INSTALLING, MAINTAINING, REMOVING AND RESTORING ENTRANCE SHALL BE INCIDENTAL TO THE CONTRACT.
 4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL CONSTRUCTION ENTRANCES (COST INCIDENTAL)

- GENERAL NOTES**
1. WHEN HAUL ROUTE IS IN USE, THE CONTRACTOR WILL BE REQUIRED TO HAVE A CROSSING GUARD FOR CONSTRUCTION PERSONNEL, CONSTRUCTION TRAFFIC, CONTRACTORS VEHICLES AND EQUIPMENT CROSSING BY, TO OR FROM WORK ZONE. STOP SIGNS SHALL BE IN PLACE AT ALL TIMES IN THIS AREA. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
 2. ADMINISTRATION BUILDING IS NOT ALLOWED TO BE DEMOLISHED UNTIL NEW RUNWAY LIGHTING REROUTING IS INSTALLED AND OPERATIONAL.
 3. CONTRACTOR SHALL MOVE BARRICADES AS NEEDED FOR PILOT ACCESS TO ADJACENT HANGARS AT NO ADDITIONAL COST TO THE CONTRACT.
 4. DURING THE MOVEMENT OF THE HANGARS TO BE RELOCATED CONTRACTOR SHALL PLACE TEMPORARY ORANGE CONES ALONG TAXILANE ROUTE AS DIRECTED BY THE AIRPORT MANAGER.
 5. TAXILANES SHALL NOT BE USED AS A HAUL ROUTE FOR CONSTRUCTION EQUIPMENT EXCEPT FOR THE RELOCATION OF BUILDINGS FROM EXISTING LOCATION TO NEW LOCATION.



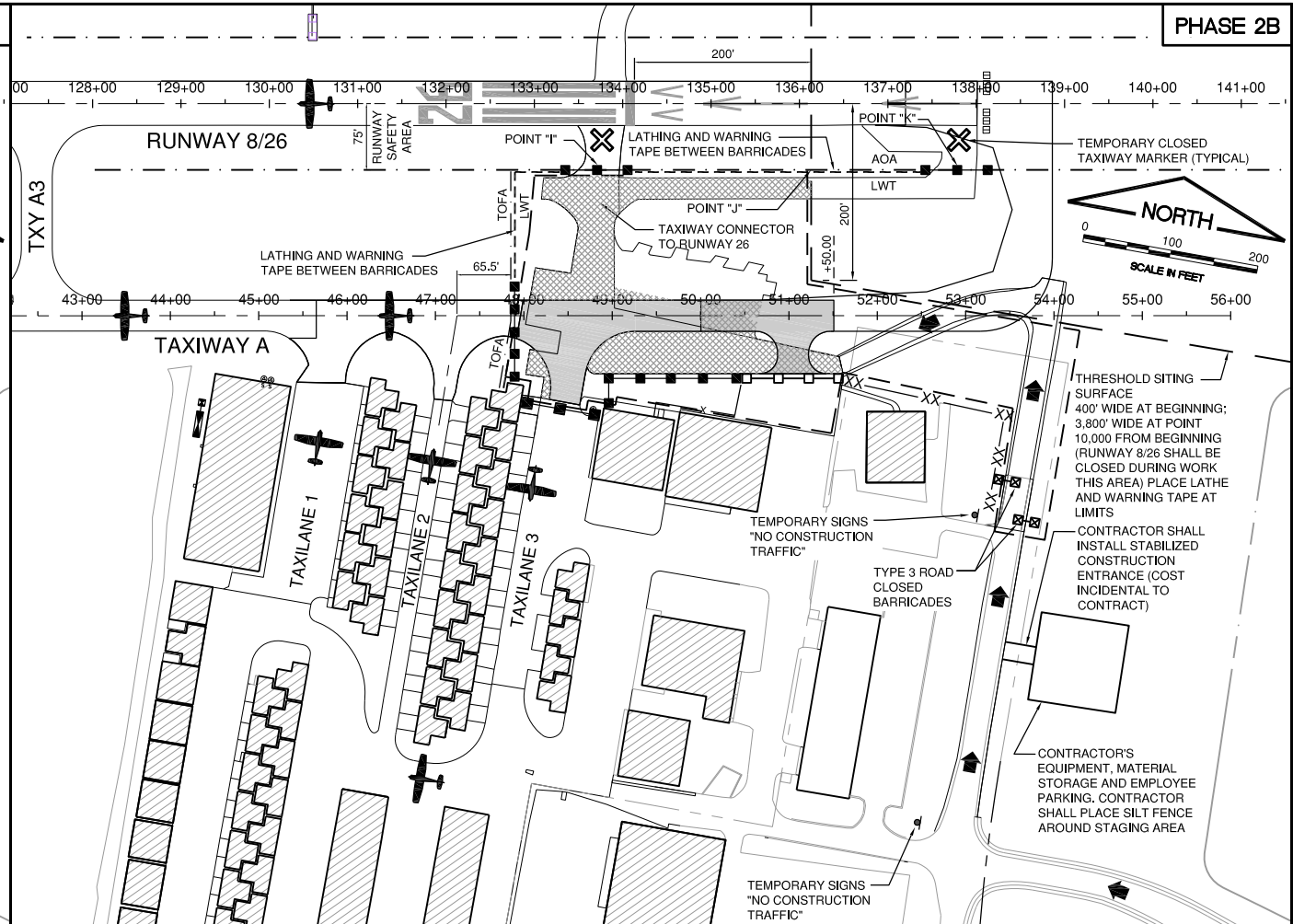
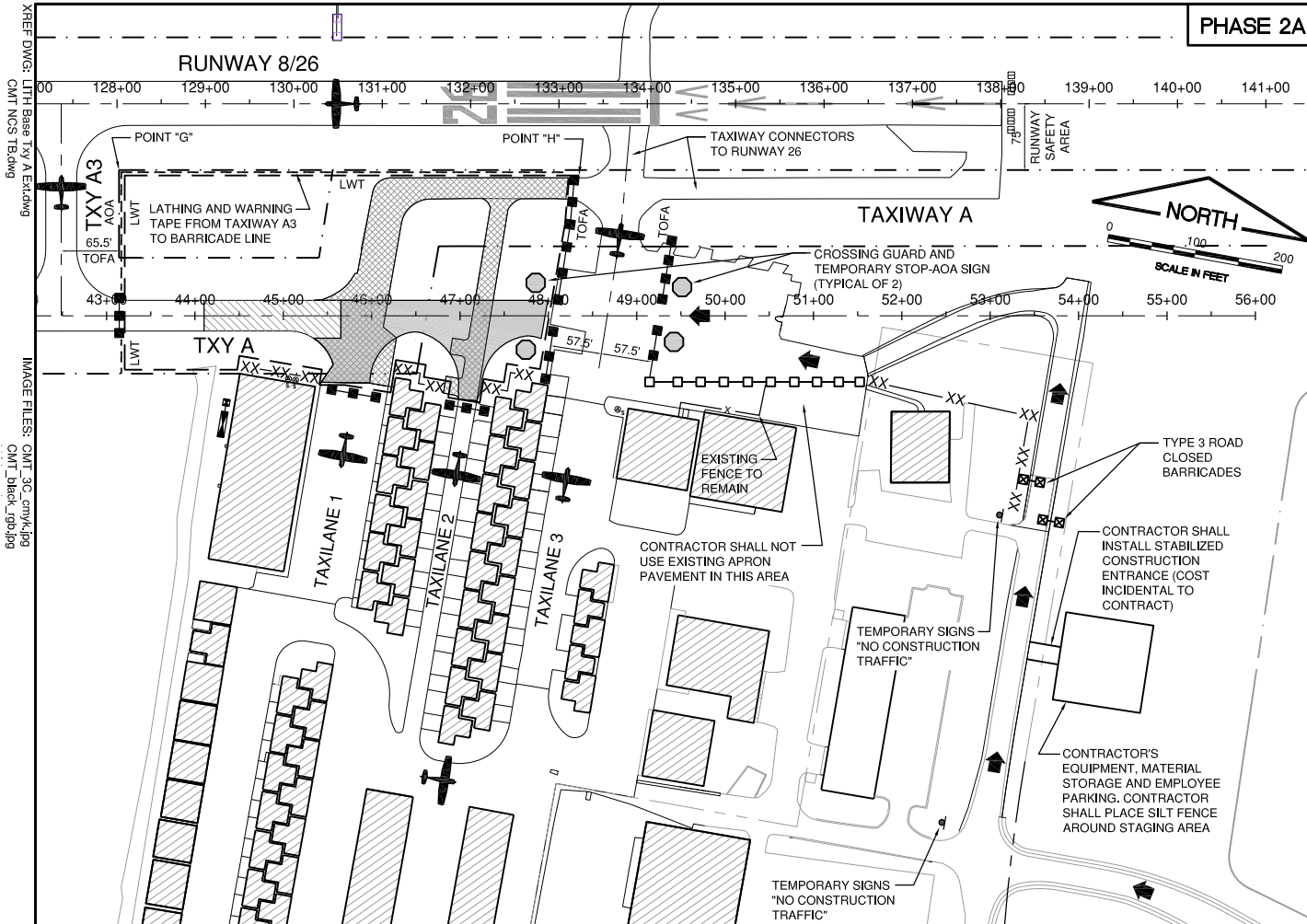
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UPDATE BY: Jim Ohee
LAYOUT: Phase 1
REF: DING: LTH Base Typ A Excavation
CMT: LTH Base Typ A Excavation
CMT: LTH Base Typ A Excavation
CMT: LTH Base Typ A Excavation

CMT
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VILLAGE OF LAKE IN THE HILLS

DESIGN BY: TMS
DRAWN BY: JRO
CHECKED BY: DKP
APPROVED BY: DLP
DATE: 12/03/2015
JOB No: 14255-01

FINAL

SHEET 5 OF 36 SHEETS



IL CONTRACT: **LK012**
 IL LETTING ITEM: **4A**
 IL PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # BOOK # 1263

| REVISIONS | | |
|-----------|----|------|
| NUMBER | BY | DATE |
| | | |
| | | |
| | | |

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

PHASE 2A SUGGESTED SEQUENCE OF CONSTRUCTION

- COORDINATE CLOSURES WITH RESIDENT ENGINEER AND AIRPORT MANAGER.
- PLACE BARRICADES AND INSTALL LATHING AND WARNING TAPE AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- INSTALL TEMPORARY EROSION CONTROL ITEMS OF WORK.
- MEGGAR EXISTING AIRFIELD CABLES.
- REMOVE EXISTING PAVEMENTS AND MISCELLANEOUS REMOVAL ITEMS.
- STRIP TOPSOIL, CONSTRUCT EARTHWORK AND FINAL GRADING.
- INSTALL STORM SEWER.
- CONSTRUCT PAVEMENT STRUCTURE.
- TOPSOIL AND SHOULDER CONSTRUCTION.
- INSTALL TAXIWAY RETROREFLECTIVE MARKERS AND PAVEMENT MARKINGS.
- SEED AND MULCH.
- STA. 43+00 TO STA. 48+00 TAXIWAY A - CONSTRUCT ALL PROPOSED IMPROVEMENTS IN ORDER TO OPEN TO AIRCRAFT TRAFFIC - COORDINATE PARTIAL FINAL INSPECTIONS WITH ENGINEER.
- CLEAN PAVEMENTS/REMOVE BARRICADES/OPEN TAXIWAY A PAVEMENT FROM STA. 43+00 TO STA. 48+00.

PRIOR TO REOPENING A CLOSED RUNWAY, THE ENTIRE (RSA) RUNWAY SAFETY AREA (75 FEET FROM CENTERLINE AND INCLUDING BEYOND THE END OF THE RUNWAY WITHIN AIRPORT PROPERTY) AND (TOFA) TAXIWAY OBJECT FREE AREA MUST MEET FAA CRITERIA. FAA CRITERIA REQUIRES THAT THERE BE NO OPEN EXCAVATIONS OR TRENCHES IN THE SAFETY AREA(S), THE MAXIMUM PAVEMENT DROP OFF BE 3 INCHES, AND ALL GRADES IN ANY DIRECTION BE LESS THAN 5 PERCENT. STEEL PLATES, TEMPORARY WEDGING OF BASE COURSE AND BITUMINOUS CONCRETE MAY BE REQUIRED TO MEET CRITERIA. ALL NECESSARY TEMPORARY MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

LEGEND

| | |
|--|--|
| | CONTRACTOR'S WORK AREA |
| | EXISTING AIRPORT PROPERTY LINE |
| | EXISTING FENCE |
| | AIR OPERATIONS AREA (A.O.A.) |
| | ACTIVE RUNWAYS: USE RUNWAY SAFETY AREA |
| | ACTIVE TAXIWAYS: USE TAXIWAY OBJECT FREE AREA |
| | ACTIVE TAXILANES: USE TAXILANE OBJECT FREE AREA |
| | AIRCRAFT OPERATIONS AREAS |
| | TYPE 3 ROAD CLOSED BARRICADES WITH ROAD CLOSED SIGNAGE |
| | TYPE II BARRICADES WITH RED LIGHTS |
| | LOW PROFILE BARRICADES WITH RED LIGHTS AND SIGNS "DO NOT ENTER" AND "AIRCRAFT MOVEMENT AREA" |
| | CONTRACTOR'S ACCESS/HAUL ROAD |
| | TEMPORARY CLOSED RUNWAY MARKER |
| | TEMPORARY CLOSED TAXIWAY MARKER |
| | CROSSING GUARD AND TEMPORARY STOP-AOA SIGN (SEE NOTE 1 ON SHEET 5) |
| | LATHING AND WARNING TAPE |
| | TEMPORARY CONSTRUCTION FENCE |

ALL PHASES:

CONTRACTOR SHALL PLAN AND PERFORM HIS WORK SO AS NOT TO INTERFERE OR HINDER THE PROGRESS, WORK OR HAUL ROAD ACCESS OF OTHER CONTRACTORS (SEE STANDARD SPECIFICATIONS SECTION 50-05). THE PRIME CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE CONSTRUCTION ACTIVITIES AND ACCESS BETWEEN ALL ON-SITE CONTRACTORS SUBCONTRACTORS.

ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS ACCEPTABLE TO THE RESIDENT ENGINEER AND AIRPORT MANAGER. ALL TEMPORARY CABLING AND SPLICING NECESSARY TO KEEP THE CIRCUITS IN OPERATION SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.

| EXISTING CRITICAL AIRCRAFT AND REQUIRED SAFETY AREAS | |
|--|----------------|
| RUNWAY | 8/26 |
| APPROACH CATEGORY | B |
| DESIGN GROUP | II |
| DESIGN AIRCRAFT | CITATION EXCEL |
| WINGSPAN | 17.2' |
| TAIL HEIGHT | 55.7' |
| AOA @ RUNWAY SAFETY AREA WIDTH (RSA) | 150' |
| RUNWAY OBJECT FREE AREA WIDTH (ROFA) | 500' |
| TAXIWAY SAFETY AREA WIDTH (TSA) | 79' |
| AOA @ TAXIWAY OBJECT FREE AREA WIDTH (TOFA) | 131' |
| AOA @ TAXILANE OBJECT FREE AREA WIDTH (TOFA) | 115' |

PHASE 2B SUGGESTED SEQUENCE OF CONSTRUCTION

- COORDINATE CLOSURES WITH RESIDENT ENGINEER AND AIRPORT MANAGER.
- PLACE BARRICADES AND INSTALL LATHING AND WARNING TAPE AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- INSTALL TEMPORARY EROSION CONTROL ITEMS OF WORK.
- REMOVE EXISTING PAVEMENTS AND MISCELLANEOUS REMOVAL ITEMS.
- STRIP TOPSOIL AND CONSTRUCT EARTHWORK AND FINAL GRADING.
- CONSTRUCT PAVEMENT STRUCTURE.
- TOPSOIL AND SHOULDER CONSTRUCTION.
- INSTALL TAXIWAY RETROREFLECTIVE MARKERS AND PAVEMENT MARKINGS.
- SEED AND MULCH.
- STA. 48+00 TO STA. 51+50 TAXIWAY A - CONSTRUCT ALL PROPOSED IMPROVEMENTS IN ORDER TO OPEN TO AIRCRAFT TRAFFIC - COORDINATE PARTIAL FINAL INSPECTIONS WITH ENGINEER.
- CLEAN PAVEMENTS/REMOVE BARRICADES/OPEN TAXIWAY A AND TAXILANE 3 PAVEMENT.

| WORK AREA | ALLOWABLE WORK PERIOD | OPERATION STATUS/RESTRICTIONS |
|-----------|-----------------------|---|
| PHASE 2A | NO RESTRICTIONS | RUNWAY 8/26 - OPEN TAXILANE 1 AND TAXILANE 2 TO TAXIWAY A - CLOSED TAXIWAY A FROM TAXIWAY A3 TO TAXIWAY CONNECTOR RUNWAY 26 - CLOSED TAXILANE 3 AND TAXIWAY CONNECTORS TO RUNWAY 26 - OPEN |
| PHASE 2B | NO RESTRICTIONS | RUNWAY 8/26 - OPEN TAXIWAY A FROM RUNWAY 8 END TO TAXIWAY CONNECTOR 1 & 2 - OPEN TAXIWAY CONNECTORS TO RUNWAY 26 - CLOSED TAXILANE 3 CONNECTOR TO TAXIWAY A - CLOSED |

NOTE: AIRCRAFT TO USE RUNWAY 8/26 FOR TAXIING TO RUNWAY 26 FOR TAKEOFFS AND ACCESS TO HANGARS VIA TAXIWAY A3.

LAKE IN THE HILLS AIRPORT
LAKE IN THE HILLS, ILLINOIS
IMPROVE RUNWAY 8/26 SAFETY AREA

SEQUENCE OF CONSTRUCTION
PHASE 2

| | |
|--------------|------------|
| DESIGN BY: | TMS |
| DRAWN BY: | JRO |
| CHECKED BY: | DKP |
| APPROVED BY: | DLP |
| DATE: | 12/03/2015 |
| JOB No: | 14255-01 |

FINAL

SHEET 6 OF 36 SHEETS

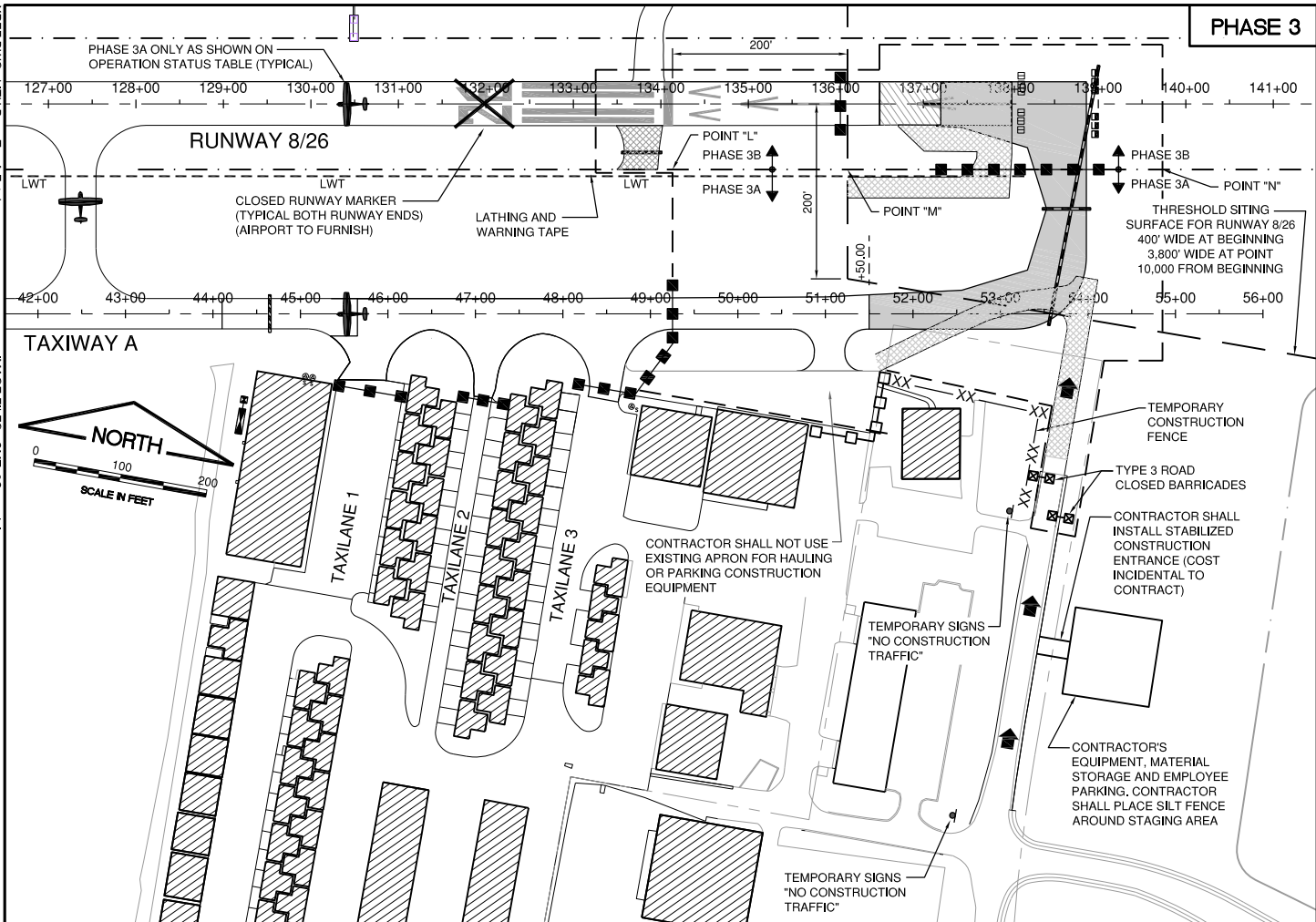
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 UPDATE BY: Jim Oise
 LAYOUT: Phase 2A-2B
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 XREF DWG: LITH Base Txy A Ext.dwg
 LITH NOS TDraw

KREF: DWG: LTH Base Typ A-Excavating
CMT NCS Teaming

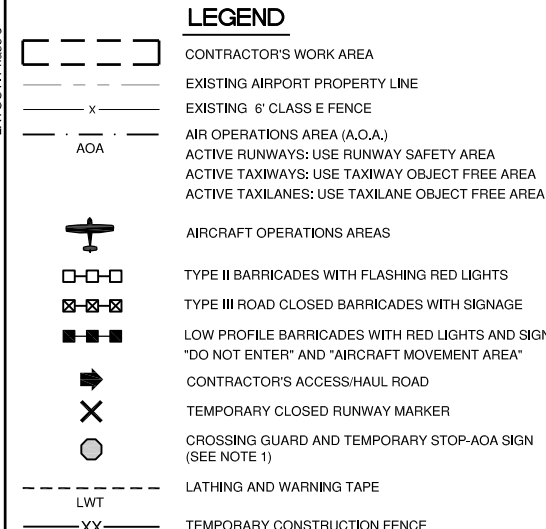
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UPDATE BY: Jim Ohse
LAYOUT: Phase 3

DATE: Tuesday, December 8, 2015 12:28:01 PM
FILE: K:\client\thehillsgp\425501\1\extension\Draw\Sheets\Preliminary\Phase3\seq\ch03.dwg



PHASE 3



SUGGESTED SEQUENCE OF CONSTRUCTION

- COORDINATE CLOSURES WITH RESIDENT ENGINEER AND AIRPORT MANAGER.
- PLACE BARRICADES, CLOSED RUNWAY MARKERS AND INSTALL LATHING AND WARNING TAPE AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- INSTALL TEMPORARY EROSION CONTROL ITEMS OF WORK.
- REMOVE EXISTING PAVEMENTS AND MISCELLANEOUS REMOVAL ITEMS.
- STRIP TOPSOIL AND CONSTRUCT EARTHWORK AND FINAL GRADING.
- CONSTRUCT PAVEMENT STRUCTURE.
- TOPSOIL AND SHOULDER CONSTRUCTION.
- INSTALL TAXIWAY RETROREFLECTIVE MARKERS AND PAVEMENT MARKING.
- SEED AND MULCH.
- COORDINATE FINAL INSPECTIONS WITH ENGINEER.
- CLEAN PAVEMENTS/REMOVE BARRICADES/OPEN PAVEMENTS.

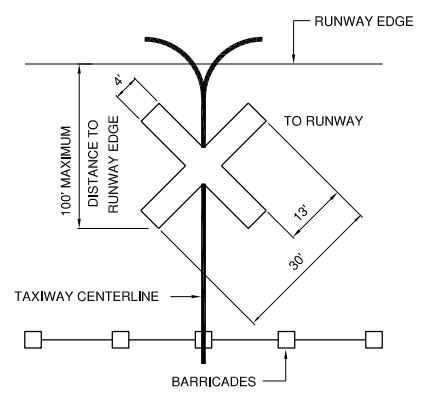
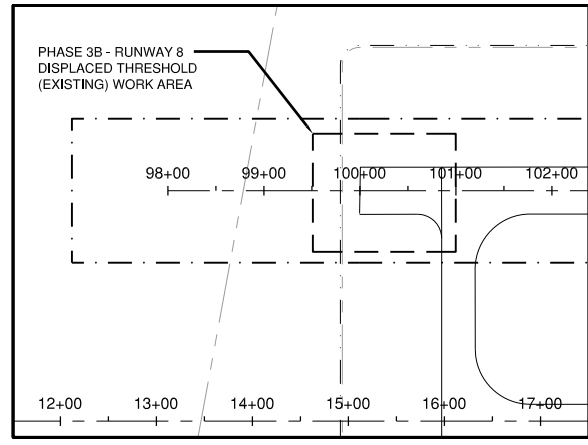
EXISTING CRITICAL AIRCRAFT AND REQUIRED SAFETY AREAS

| | |
|--|----------------|
| RUNWAY | 8/26 |
| APPROACH CATEGORY | B |
| DESIGN GROUP | II |
| DESIGN AIRCRAFT | CITATION EXCEL |
| WINGSPAN | 17.2 |
| TAIL HEIGHT | 55.7 |
| AOA @ RUNWAY SAFETY AREA WIDTH (RSA) | 150' |
| RUNWAY OBJECT FREE AREA WIDTH (ROFA) | 500' |
| TAXIWAY SAFETY AREA WIDTH (TSA) | 79' |
| AOA @ TAXIWAY OBJECT FREE AREA WIDTH (TOFA) | 131' |
| AOA @ TAXILANE OBJECT FREE AREA WIDTH (TOFA) | 115' |

ALL PHASES:
CONTRACTOR SHALL PLAN AND PERFORM HIS WORK SO AS NOT TO INTERFERE OR HINDER THE PROGRESS, WORK OR HAUL ROAD ACCESS OF OTHER CONTRACTORS (SEE STANDARD SPECIFICATIONS SECTION 50-05). THE PRIME CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE CONSTRUCTION ACTIVITIES AND ACCESS BETWEEN ALL ON-SITE CONTRACTORS SUBCONTRACTORS.

ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS ACCEPTABLE TO THE RESIDENT ENGINEER AND AIRPORT MANAGER. ALL TEMPORARY CABLING AND SPLICING NECESSARY TO KEEP THE CIRCUITS IN OPERATION SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.

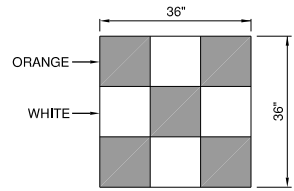
| WORK AREA | ALLOWABLE WORK PERIOD | OPERATION STATUS/RESTRICTIONS |
|--|---|--|
| PHASE 3A WORK OUTSIDE RUNWAY 8/26 SAFETY AREA AND WITHIN THRESHOLD SITING SURFACE | 14 CALENDAR DAYS (CONSECUTIVE); DAY TIME ONLY | RUNWAY 8/26 - CLOSED DAYTIME ONLY; TAXIWAY A, TAXILANES 1, 2 AND 3 CLOSED DAYTIME ONLY |
| PHASE 3B WORK WITHIN RUNWAY 8/26 SAFETY AREA AND WITHIN THRESHOLD SITING SURFACE | 7 CALENDAR DAYS (CONSECUTIVE); WORK IS REQUIRED TO BE COMPLETED WITHIN THE LAST 7 CALENDAR DAYS OF PHASE 3A | RUNWAY 8/26 - CLOSED DAY AND NIGHT; TAXIWAY A, TAXILANES 1, 2 AND 3 CLOSED |



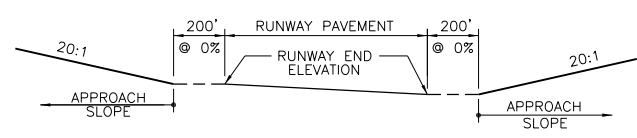
CLOSED TAXIWAY MARKER DETAIL
NOT TO SCALE

CLOSED TAXIWAY MARKER DETAIL NOTES

1. CLOSED TAXIWAY MARKERS SHALL BE PAINTED WITH TEMPORARY MARKING CAPABLE OF BEING REMOVED WITH LOW PRESSURE WATER BLASTING OR OTHER MATERIAL THAT DOES NOT VIOLATE THE OBJECT FREE AREA CRITERIA AND RUNWAY SAFETY AREA CRITERIA PER ADVISORY CIRCULAR 150/5300-13A (LATEST EDITION) AND ARE APPROVED BY THE AIRPORT.
2. CONTRACTOR SHALL MAINTAIN AND RELOCATE MARKERS AS SHOWN ON THE PLANS OR AS NEEDED TO FACILITATE CONSTRUCTION
3. COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
4. PLACE MARKERS OVER TAXIWAY CENTERLINE.
5. MARKERS SHALL BE ADEQUATELY SECURED TO PREVENT MOVEMENT BY PROPELLER WASH, JET BLAST OR OTHER WIND CURRENTS.
6. MARKERS ARE ONLY REQUIRED FOR TAXIWAYS CLOSED THREE (3) CONSECUTIVE DAYS OR MORE.

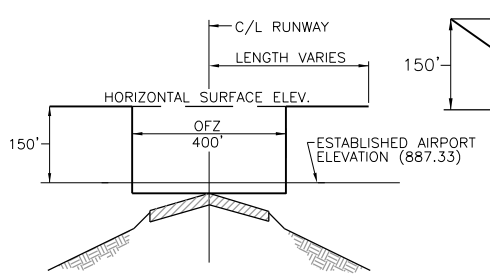


CONSTRUCTION EQUIPMENT AND TRUCK SIGNAL FLAG
NOT TO SCALE



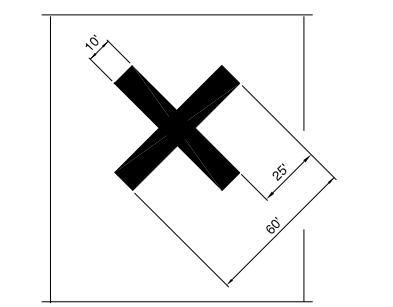
TYPICAL PROFILE F.A.R. PART 77 IMAGINARY SURFACES
NO SCALE

| RUNWAY END | ELEVATION | APPROACH SLOPE |
|------------|-----------|----------------|
| 8 | 884.68 | 20:1 |
| 26 | 885.25 | 20:1 |

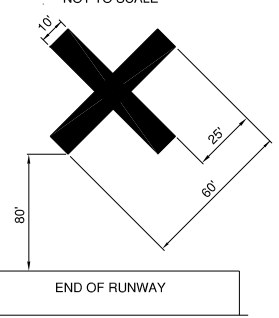


TYPICAL SECTION OBSTACLE FREE ZONE (OFZ)
NO SCALE

| RUNWAY | TYPE OF RUNWAY | H (FEET) |
|--------|----------------|----------|
| 8-26 | VISUAL | 150 |



ON PAVEMENT TEMPORARY CLOSED RUNWAY MARKER DETAIL
NOT TO SCALE

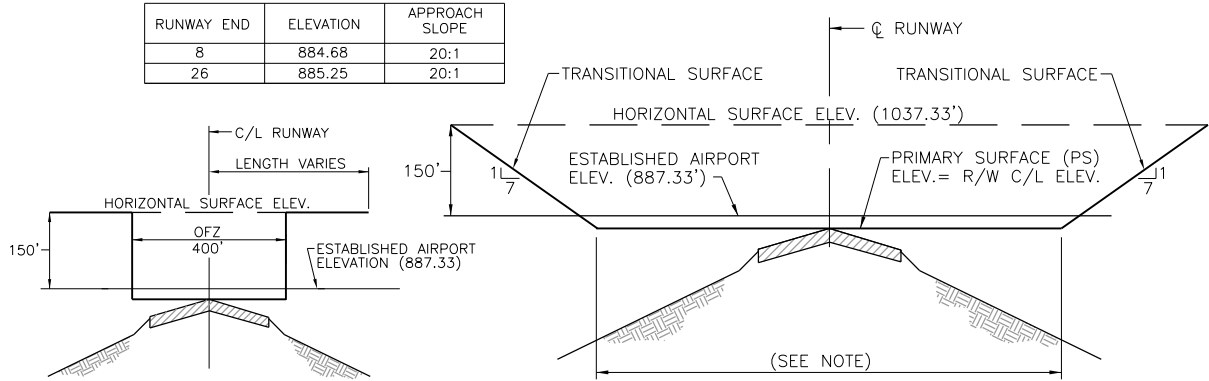


OFF PAVEMENT TEMPORARY CLOSED RUNWAY MARKER DETAIL
NOT TO SCALE

CLOSED RUNWAY MARKER DETAIL NOTES

1. CLOSED RUNWAY MARKERS SHALL BE YELLOW.
2. MARKERS SHALL BE MATERIAL APPROVED BY THE ENGINEER.
3. CONTRACTOR SHALL MAINTAIN AND RELOCATE MARKERS AS SHOWN ON THE PLANS OR AS NEEDED TO FACILITATE CONSTRUCTION
4. MARKERS ON PAVEMENT SHALL BE PLACED OVER EXISTING RUNWAY NUMERALS AS SHOWN.
5. MARKERS SHALL BE FURNISHED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS FOR INSTALLING, RELOCATING, MAINTAINING AND REMOVING THE MARKERS, WHOSE COST SHALL BE INCIDENTAL TO THE CONTRACT.
6. DURING VARIOUS PHASES OF WORK, IT WILL BE NECESSARY TO CLOSE RUNWAYS TO AIR TRAFFIC ON A TEMPORARY BASIS AS COORDINATED WITH THE AIRPORT. THE CONTRACTOR SHALL MARK THE RUNWAYS TO BE CLOSED BY PLACING A YELLOW CROSS AT THE LOCATION AND DIMENSIONS DETAILED ON THIS SHEET. THE CROSSES ARE SHOWN ON THE RESPECTIVE RUNWAYS ACCORDING TO THE VARIOUS PHASES OF WORK AS DELINEATED IN THE SUGGESTED SEQUENCE OF CONSTRUCTION.

PRIOR TO REOPENING A CLOSED RUNWAY, THE ENTIRE (RSA) RUNWAY SAFETY AREA (150 FEET FROM CENTERLINE AND INCLUDING BEYOND THE END OF THE RUNWAY WITHIN AIRPORT PROPERTY) AND (TOFA) TAXIWAY OBJECT FREE AREA MUST MEET FAA CRITERIA. FAA CRITERIA REQUIRES THAT THERE BE NO OPEN EXCAVATIONS OR TRENCHES IN THE SAFETY AREA(S), THE MAXIMUM PAVEMENT DROP OFF BE 3 INCHES, AND ALL GRADES IN ANY DIRECTION BE LESS THAN 5 PERCENT. STEEL PLATES, TEMPORARY WEDGING OF BASE COURSE AND BITUMINOUS CONCRETE MAY BE REQUIRED TO MEET CRITERIA. ALL NECESSARY TEMPORARY MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



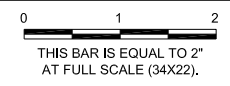
TYPICAL SECTION F.A.R. PART 77 IMAGINARY SURFACES
NO SCALE

NOTE:
IMAGINARY SURFACE REQUIREMENTS FOR EXISTING ACTIVE RUNWAYS (R/W);
R/W 8-26 500' PRIMARY SURFACE (PS) (250' LT. & RT. OF CENTERLINE)

IL. CONTRACT: **LK012**
IL. LETTING ITEM: **4A**
IL. PROJECT: **3CK-4404**
S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # BOOK # 1263

| REVISIONS | | |
|-----------|----|------|
| NUMBER | BY | DATE |
| | | |
| | | |
| | | |
| | | |



**LAKE IN THE HILLS AIRPORT
LAKE IN THE HILLS, ILLINOIS
IMPROVE RUNWAY 8/26 SAFETY AREA**

**SEQUENCE OF CONSTRUCTION
PHASE 3**

CMT
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VILLAGE OF
LAKE IN THE HILLS

| | |
|--------------|------------|
| DESIGN BY: | TMS |
| DRAWN BY: | JRO |
| CHECKED BY: | DKP |
| APPROVED BY: | DLP |
| DATE: | 12/03/2015 |
| JOB No: | 14255-01 |

FINAL

REFERENCE: ILL. REG. BY A. Erickson
 CMT SOCS INC. 3000 S. W. 10th Ave. Ocala, FL 32067
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 UPDATE BY: Jim O'Hee
 LAYOUT: ErOse Dls
 IMAGE FILES: IUM 654.DWG
 CMT Job: 3000 S. W. 10th Ave. Ocala, FL 32067
 ErOseplan.dwg
 ErOseplan.dwg

TEMPORARY EROSION CONTROL GENERAL NOTES

- EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE VILLAGE OF LAKE IN THE HILLS AND MCHENRY COUNTY STORM WATER REQUIREMENTS.
- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED SEPTEMBER 2012.
- A COPY OF THE APPROVED EROSION CONTROL AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIME.
- THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES IMMEDIATELY AFTER STRIPPING OF EXISTING VEGETATION.
- NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE SITE OTHER THAN THROUGH EROSION CONTROL PROTECTIVE MEASURES. THE CONTRACTOR WILL ADJUST HIS OPERATIONS AND IMPLEMENT EROSION CONTROL MEASURES ACCORDINGLY.
- MAINTENANCE AND REPAIR OF ALL EROSION CONTROL MEASURES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY AREA.
- THE CONTRACTOR SHALL INSTALL SILT FILTER FENCE AT ALL EARTH STOCKPILES WHICH SHALL BE PAID FOR AS SILT FENCE.
- ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY, AND CLEANED WHEN NECESSARY.
- EROSION CONTROL MEASURES SHALL BE INSPECTED 24 HOURS AFTER ANY STORM OF PRECIPITATION OF 0.5" OR GREATER.
- ALL CONCRETE TRUCK WASHOUT LOCATIONS SHALL BE LOCATED WITHIN THE CONTRACTOR'S STAGING AREA. THE DESIGNATED AREA SHALL BE APPROVED BY THE ENGINEER.
 - A CONCRETE WASHOUT SIGN SHALL BE INSTALL WITHIN 20 FEET OF THE TEMPORARY CONCRETE TRUCK WASHOUT FACILITY. AT A MINIMUM, THE SIGN SHALL READ "CONCRETE WASHOUT" IN 6" TALL LETTERS.
 - INSPECTION SHALL OCCUR ONCE A WEEK AND DAILY DURING CONCRETE OPERATIONS. REPAIR/REPLACEMENT OF THE FACILITY SHALL BE MADE SUCH THAT CONCRETE WASTE IS CONTAINED.
 - THE CONCRETE WASHOUT FACILITY MUST BE CLEANED AND ALL OF THE CONTAINED MATERIALS SHALL BE REMOVED AND DISPOSED OF AT A LEGAL OFF-SITE LOCATION WHEN THE FACILITY HAS REACHED TWO-THIRDS CAPACITY. UPON COMPLETION OF CONCRETE OPERATIONS, THE CONCRETE TRUCK WASHOUT AND ALL MATERIALS CONTAINED WITHIN SHALL BE DISPOSED OF AT A LEGAL OFF-SITE LOCATION.
 - WASHOUT TO BE LOCATED ON LEVEL GROUND AND A MINIMUM OF 50' FROM INLETS, DRAINAGE FACILITIES OR WATER BODIES. IF REQUIRED CONTRACTOR SHALL BUILD A LEVEL PAD FOR THE WASHOUT (COST INCIDENTAL TO CONTRACT).
 - ALL LABOR, EQUIPMENT, TOOLS, MATERIAL, EXCAVATION, MAINTENANCE AND DISPOSAL SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
 - CONTRACTOR SHALL REMOVE ACCUMULATED LIQUIDS PRIOR TO IMPENDING STORMS TO PREVENT OVERFLOW OF FACILITY, OTHERWISE COVER FACILITY.
 - CONTRACTOR MAY PROPOSE ALTERNATE WASHOUT FACILITIES IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL FOR REVIEW AND APPROVAL BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ALL EROSION CONTROL DEVICES. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED, REPAIRED, AND REPLACED THROUGHOUT THE ENTIRE CONSTRUCTION OF PROJECT. AFTER ACHIEVING PERMANENT VEGETATION, ALL EROSION CONTROL DEVICES SHALL BE REMOVED. ALL DRAINAGE STRUCTURES CLEANED, AND ALL AREAS DISTURBED BY INSTALLATION OF EROSION CONTROL DEVICES RESTORED.
- SILT BASKETS SHALL BE INSTALLED AT ALL IN PAVEMENT AND TURF DRAINAGE STRUCTURES. SILT BASKETS SHALL BE CLEANED AS RECOMMENDED BY THE MANUFACTURER OR AT THE DISCRETION OF THE ENGINEER. COSTS FOR INSTALLATION AND CLEANING OF SILT BASKETS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR INLET PROTECTION.
- TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED BY HAND BROADCASTING TO ACHIEVE REASONABLY UNIFORM COVERAGE AT A RATE OF 100LB/ACRE.
- DITCH CHECKS SHALL BE FROM IDOT'S APPROVED LIST OR ROLLED EXCELSIOR. ROLLED EXCELSIOR SHALL BE IN CONFORMANCE WITH SECTIONS 280.04 AND 1081.15 (f) OF THE STD. SPECIFICATION. FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, METAL STAKES WILL NOT BE PERMITTED.
- DITCH CHECK SPACING BASED ON 10-INCH HIGH DITCH CHECK, SPACING AND QUANTITY TO BE ADJUSTED BASED ON TYPE OF DITCH CHECK INSTALLED.
- CONTRACTOR SHALL DETERMINE AND IMPLEMENT THE NECESSARY PRECAUTIONS TO MINIMIZE FUGITIVE DUST DURING BUILDING AND FOUNDATION DEMOLITION, AT A MINIMUM SURFACES SHOULD BE WETTED.
- EROSION CONTROL BLANKET WILL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. WOOD STAKES OR BIODEGRADABLE PLASTIC STAKES ARE TO BE USED ONLY. METAL STAKES ARE NOT ALLOWED.

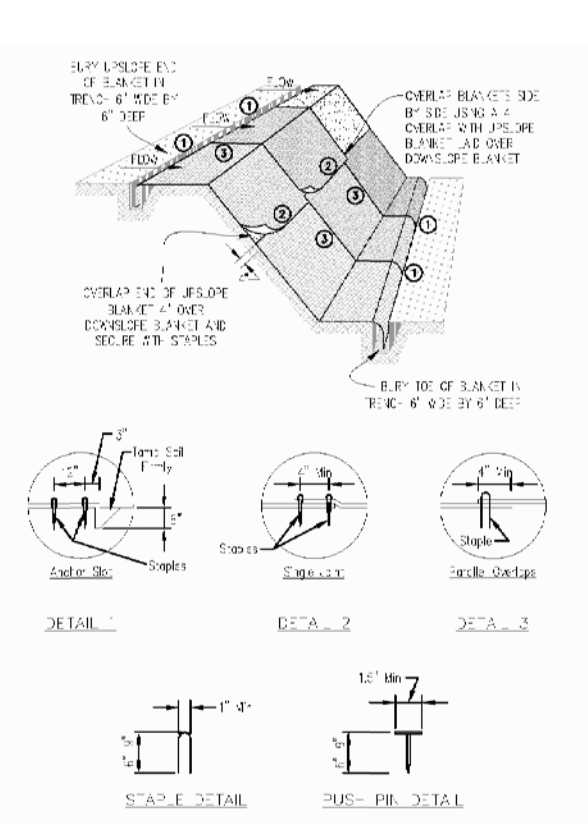
MCHENRY COUNTY STANDARD SOIL EROSION AND SEDIMENT CONTROL NOTES

- CONTROL MEASURES SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE ILLINOIS URBAN MANUAL (WWW.AISWCD.ORG/IUM) UNLESS STATED OTHERWISE.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE DISTURBED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL STABILIZATION IS ACHIEVED.
- SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.
- NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION.
- OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.
- SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.
- STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NOT LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED BELOW:
 - WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE; AND
 - IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.
- DISTURBANCE OF STEEP SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKED IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR AN EQUIVALENT CONTROL MEASURE.
- PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.
- THE STORMWATER MANAGEMENT SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS, CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE. SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.
- IF DEWATERING SERVICES ARE USED, DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP OR AN EQUIVALENT CONTROL MEASURE). THE ENFORCEMENT OFFICER SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION OF THE DEVELOPMENT SITE IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NECESSARY. TRAPPED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED.
- STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN IWMC OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS, OR AN EQUIVALENT CONTROL MEASURE.
- EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO:
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER; AND
 - MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORMWATER.
- ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITING OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE APPLICANT SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, OR IWMC. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.
- THE ENFORCEMENT OFFICER MAY REQUIRE ADDITIONAL OR ALTERNATE SOIL EROSION AND SEDIMENT CONTROL MEASURES, BASED ON DEVELOPMENT SITE SPECIFIC CONSIDERATIONS AND THE EFFECTIVENESS OF THE INSTALLED CONTROL MEASURES.

VEGETATIVE BUFFER NOTES

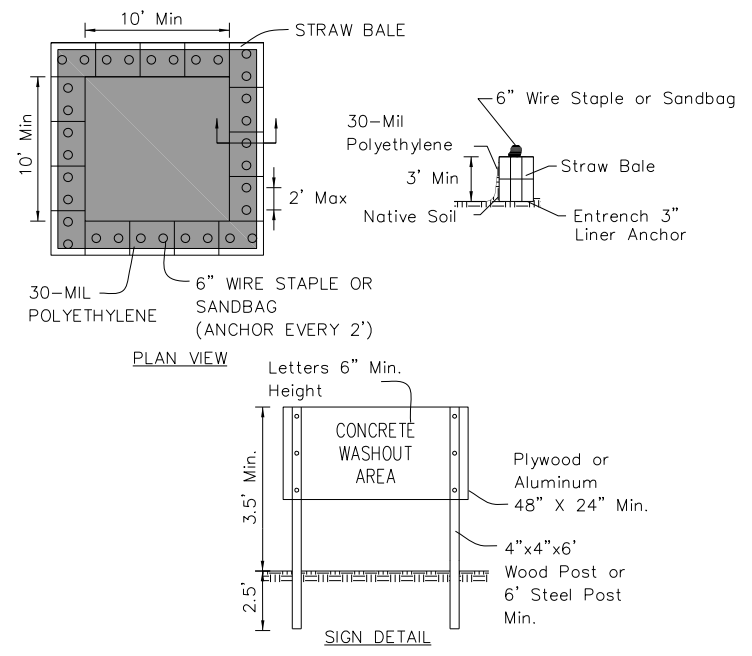
- CONTRACTOR SHALL MARK THE VEGETATIVE BUFFER WITH LATHE AND RIBBON. THE AREA SHALL NOT BE DISTURBED BY CONSTRUCTION EQUIPMENT OR VEHICLES.
- VEGETATIVE BUFFER SHALL BE INSPECTED FOR PROPER DISTRIBUTION OF FLOWS, SEDIMENT ACCUMULATION AND SIGNS OF RILL FORMATION. THEY SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PROVIDED 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD.
- IF THE BUFFER BECOMES SILT COVERED, CONTAINS RILLS OR IS OTHERWISE RENDERED INEFFECTIVE, OTHER PERIMETER SEDIMENT CONTROL MEASURES SHALL BE INSTALLED. ERODED AREAS SHALL BE REPAIRED AND STABILIZED. REPAIR SHALL BE COMPLETED AS SOON AS POSSIBLE WITH CONSIDERATION TO SITE CONDITIONS.
- THE BUFFER VEGETATION SHALL BE MAINTAINED BETWEEN A HEIGHT OF 4-12 INCHES.
- MAINTENANCE OF THE BUFFER AREA WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

| STABILIZATION TYPE | JAN. | FEB. | MAR. | APR. | MAY. | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|--|------|------|------|------|------|------|------|------|-------|------|------|------|
| PERMANENT SEEDING | | | | A | | | | A | | | | |
| DORMANT SEEDING | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| TEMPORARY SEEDING | | | B | | | | | | | | | |
| MULCHING | | | | | | | | | | | | |
| TEMPORARY MULCHING | | | | | | | | | | | | |
| EROSION CONTROL BLANKET | | | | | | | | | | | | |
| A. SEEDING AERONAUTICS MIX (SEE IDOT STD. SPEC. AIRPORTS SECTION 901-2.17 FOR SEEDING MIXTURE) | | | | | | | | | | | | |
| B. TEMPORARY SEEDING (SEE IDOT STD. SPEC. ART. 280.04 f.) | | | | | | | | | | | | |



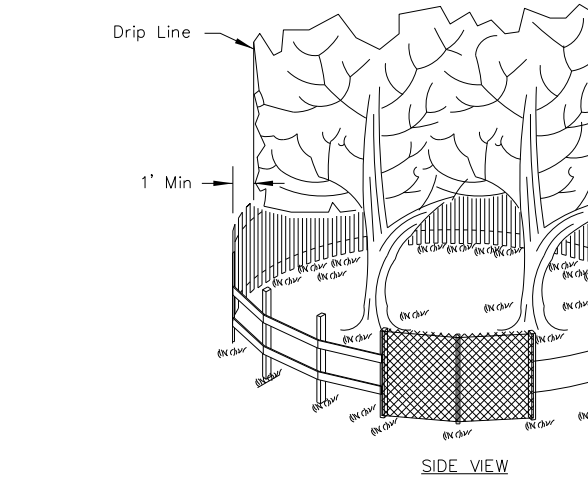
NOTES:

- Staples shall be placed in a diamond pattern at 2' per side for staked blankets. Not-staked blankets shall use 4 staples per side of overlap. This applies to 200 staples with 1/4" x 1/4" blades and 400 staples with non-staked control bar 1/2" dia. of material.
- Staple or post pin lengths shall be selected based on soil type and conditions (minimum staple length is 6").
- Post or control material shall be placed in contact with the soil over a prepared seedbed.
- All control slope shall be staked at approximately 2' intervals.



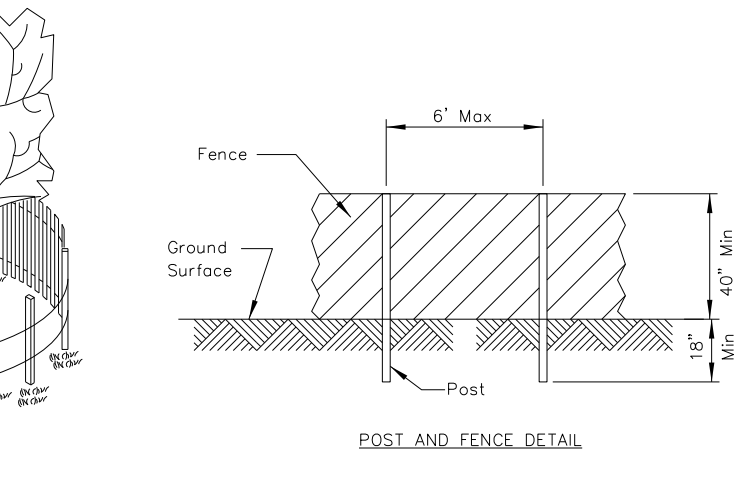
TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE
 IL URBAN MANUAL STD. IUM-654 5B
 NOTES: STRAW BALE ANCHOR SECTIONS

- MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.
- FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.
- EACH STRAW BALE IS TO BE STAKED IN PLACE USING (2) 2"x2"x4' WOODEN STAKES.
- SEE NOTE 10 FROM TEMPORARY EROSION CONTROL GENERAL NOTES.



TREE TRUNK PROTECTION DETAIL
 IL URBAN MANUAL STD. IL-690
NOTES:

- THE FENCE SHALL BE LOCATED A MINIMUM OF 1 FOOT OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
- FENCE POSTS SHALL BE EITHER STANDARD STEEL POSTS OR WOOD POSTS WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQ. IN.
- THE FENCE MAY BE EITHER 40" HIGH SNOW FENCE, 40" PLASTIC WEB FENCING OR ANY OTHER MATERIAL AS APPROVED BY THE ENGINEER/INSPECTOR.
- TREE TRUNK PROTECTION SHALL BE MEASURED AND PAID FOR AS ITEM AR163000 TEMPORARY CONSTRUCTION FENCE.



IL CONTRACT: **LK012**
 IL LETTING ITEM: **4A**
 IL PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # **BOOK # 1263**

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

LAKE IN THE HILLS AIRPORT
LAKE IN THE HILLS, ILLINOIS
IMPROVE RUNWAY 8/26 SAFETY AREA
LANDSCAPING AND EROSION CONTROL PLAN
NOTES AND DETAILS 1

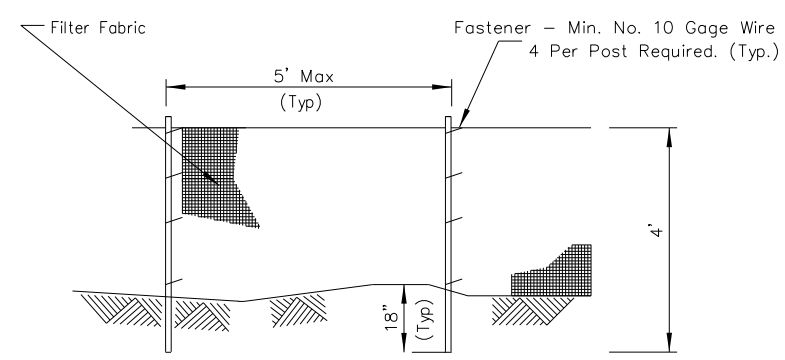
CMT
 © Copyright CMT, Inc. 2014
 VILLAGE OF LAKE IN THE HILLS

DESIGN BY: TMS
 DRAWN BY: JRO
 CHECKED BY: DKP
 APPROVED BY: DLP
 DATE: 12/03/2015
 JOB No: 14255-01

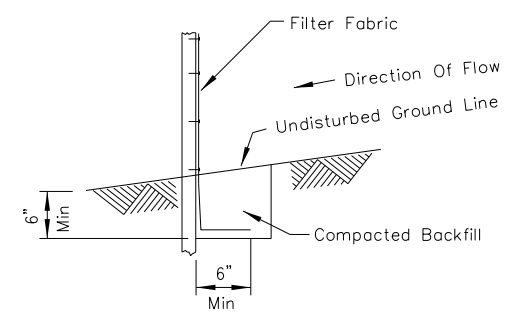
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SHEET 9 OF 36 SHEETS

DATE: Tuesday, December 8, 2016 12:11:33 PM
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 UPDATE BY: Jim Chase
 LAYOUT: Eros Dlg (2)
 REFERENCE: LHM Base Typ A Excavating
 IMAGE FILES: LHM 530.dwg
 CMT Job Title: 3-17-SBGP-XX
 LHM (3) (2)



ELEVATION

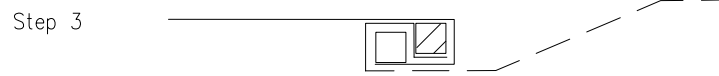
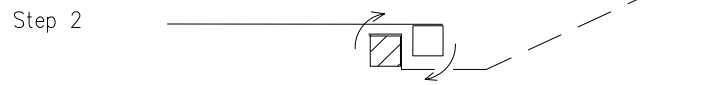


FABRIC ANCHOR DETAIL

NOTES:

- TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
- FILTER FABRIC SHALL BE A WOVEN FABRIC MEETING THE REQUIREMENTS OF AASHTO M288 FOR UNSUPPORTED SILT FENCE WITH LESS THAN 50 PERCENT GEOTEXTILE ELONGATION.
- FENCE POSTS SHALL BE WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.

SILT FENCE DETAIL

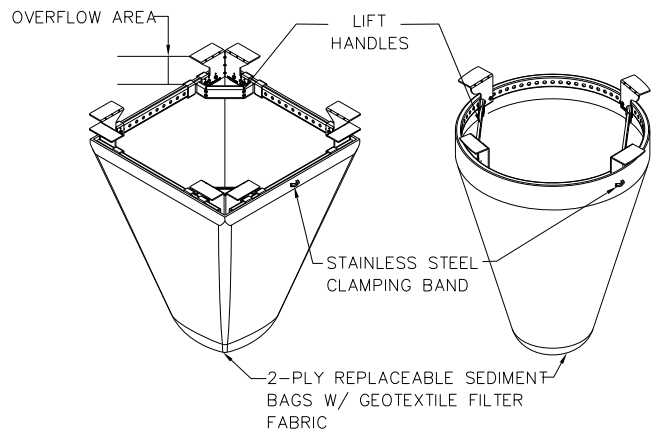


ATTACHING TWO SILT FENCES

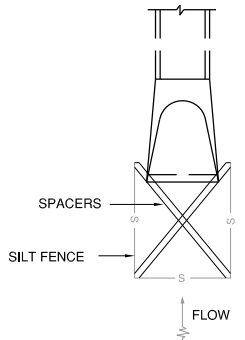
NOTES:

- PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
- ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
- DRIVE BOTH POSTS A MINIMUM OF 18 INCHES INTO THE GROUND AND BURY THE FLAP.
- SILT FILTER J-HOOK PLACEMENT SHALL BE IN ACCORDANCE WITH IDOT STD. 280001-07.

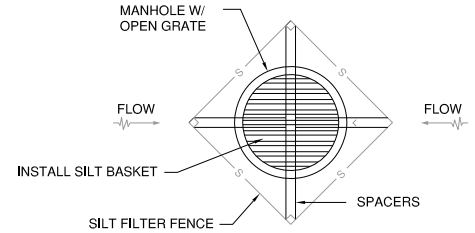
ATTACHING TWO SILT FENCES DETAIL



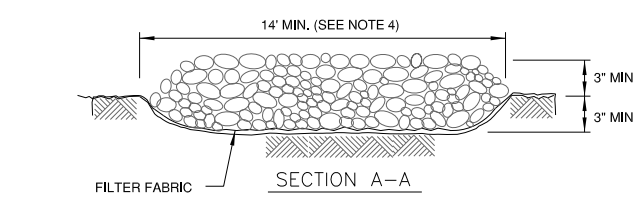
INLET PROTECTION – SILT BASKET
(PAVEMENT AND TURF)
FOR ALL RECTANGULAR AND CIRCULAR INLETS



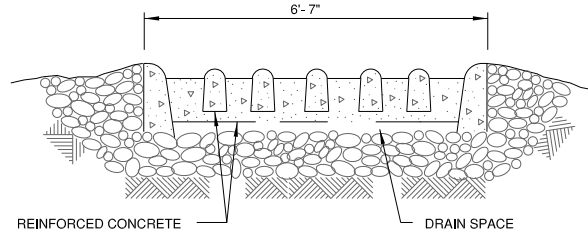
INLET PROTECTION (END SECTION)
NOT TO SCALE
IDOT STANDARD 280001-07



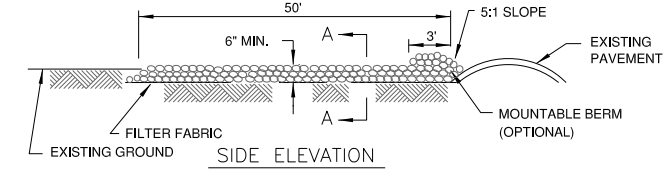
INLET PROTECTION (INLET/MANHOLES - IN TURF)
NOT TO SCALE
IDOT STANDARD 280001-07



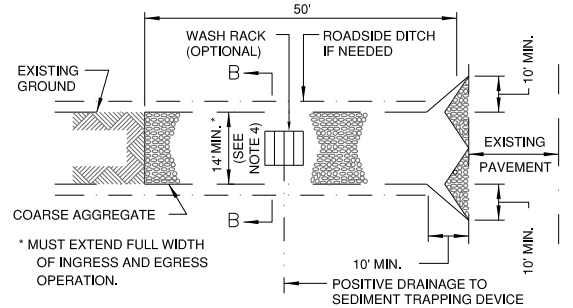
SECTION A-A



SECTION B-B



SIDE ELEVATION



PLAN VIEW

STABILIZED CONSTRUCTION ENTRANCE

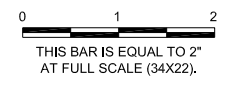
FROM NRCS STANDARD DRAWING NO. IL-630

- FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFIED UNDER SECTION 1080.03, OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012.
- ROCK OR RECLAIMED CONCRETE SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATION, CA-1, CA-2, CA-3 OR CA-4. COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.
- ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND SHALL BE INCIDENTAL TO THE CONTRACT.
- MINIMUM WIDTH IS 14' FOR ONE-WAY TRAFFIC AND 20' FOR TWO WAY TRAFFIC. TWO-WAY TRAFFIC WIDTHS SHALL BE INCREASED A MINIMUM OF 4' FOR TRAILER TRAFFIC, DEPENDING ON THE TYPE OF VEHICLE OR EQUIPMENT, SPEED, LOADS, CLIMATIC AND OTHER CONDITIONS UNDER WHICH VEHICLES AND EQUIPMENT OPERATE AN INCREASE IN THE MINIMUM WIDTHS MAY BE REQUIRED.
- ROADWAY SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE.
- IF WASH RACK ARE USED THEY SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
- THE STABILIZED CONSTRUCTION ENTRANCE SHALL NOT BE PAID FOR BUT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

IL CONTRACT: **LK012**
 IL LETTING ITEM: **4A**
 IL PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # BOOK # 1263

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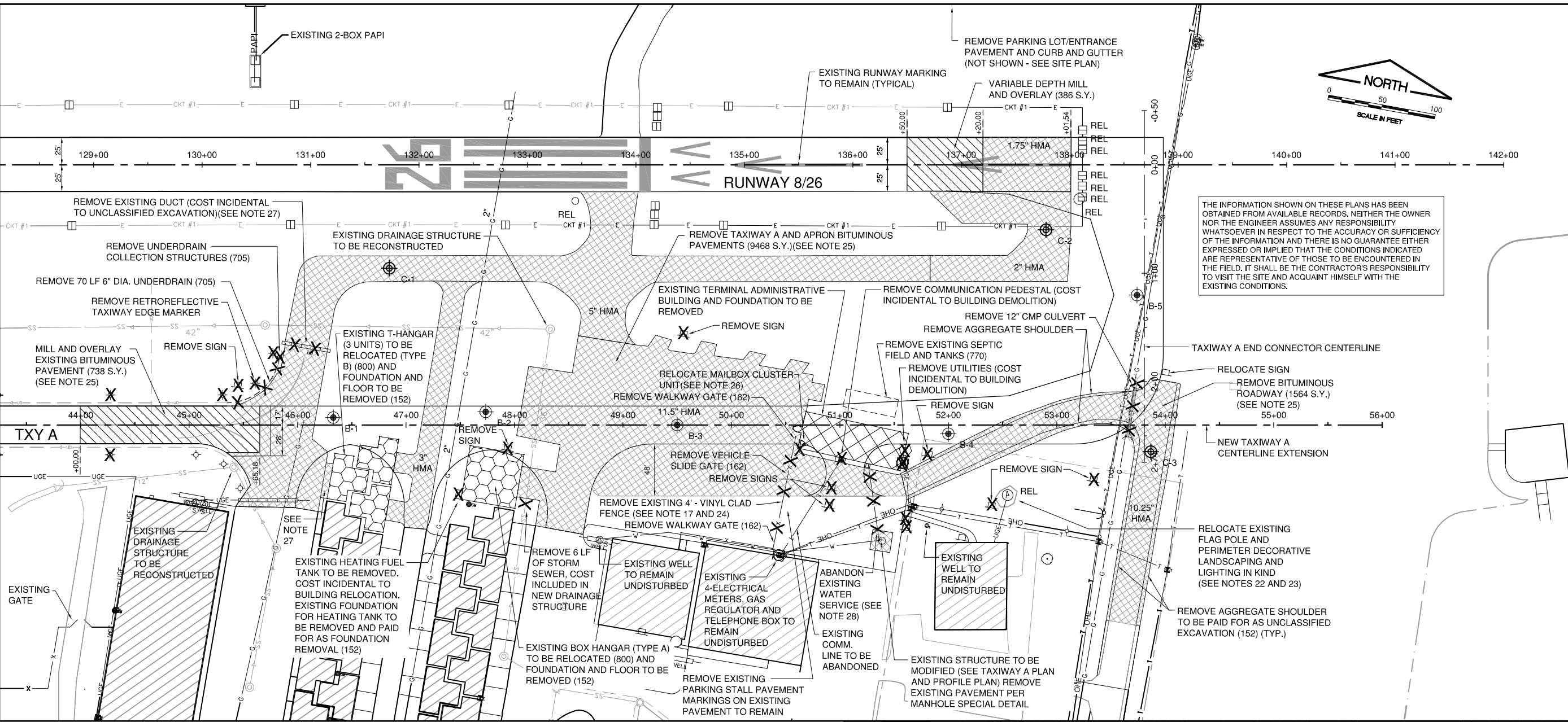
**LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA**
**LANDSCAPING AND EROSION CONTROL PLAN
 NOTES AND DETAILS 2**



| | |
|--------------|------------|
| DESIGN BY: | TMS |
| DRAWN BY: | JRO |
| CHECKED BY: | DKP |
| APPROVED BY: | DLP |
| DATE: | 12/03/2015 |
| JOB No: | 14255-01 |

FINAL

DATE: Tuesday, December 8, 2015 12:12:00 PM
 FILE: K:\Label\TheHills\311455501_TxyExtension\Draw\Sheets\Plan\TxyA_Extension_Existing_Conditions.dwg
 UPDATE BY: Jim Ohe
 LAYOUT: Exist Cond Txy A
 REF: DWG: LTH Base Txy A Extension
 CMT: LTH Base Txy A Extension
 IMAGE FILES: CMT: 3C Conk.jpg
 CMT: 3C Conk.jpg
 CMT: 3C Conk.jpg

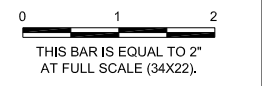


THE INFORMATION SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE INFORMATION AND THERE IS NO GUARANTEE EITHER EXPRESSED OR IMPLIED THAT THE CONDITIONS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE FIELD. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACQUAINT HIMSELF WITH THE EXISTING CONDITIONS.

IL CONTRACT: **LK012**
 IL LETTING ITEM: **4A**
 IL PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # BOOK # 1263

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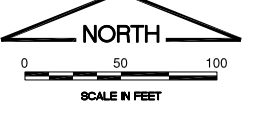
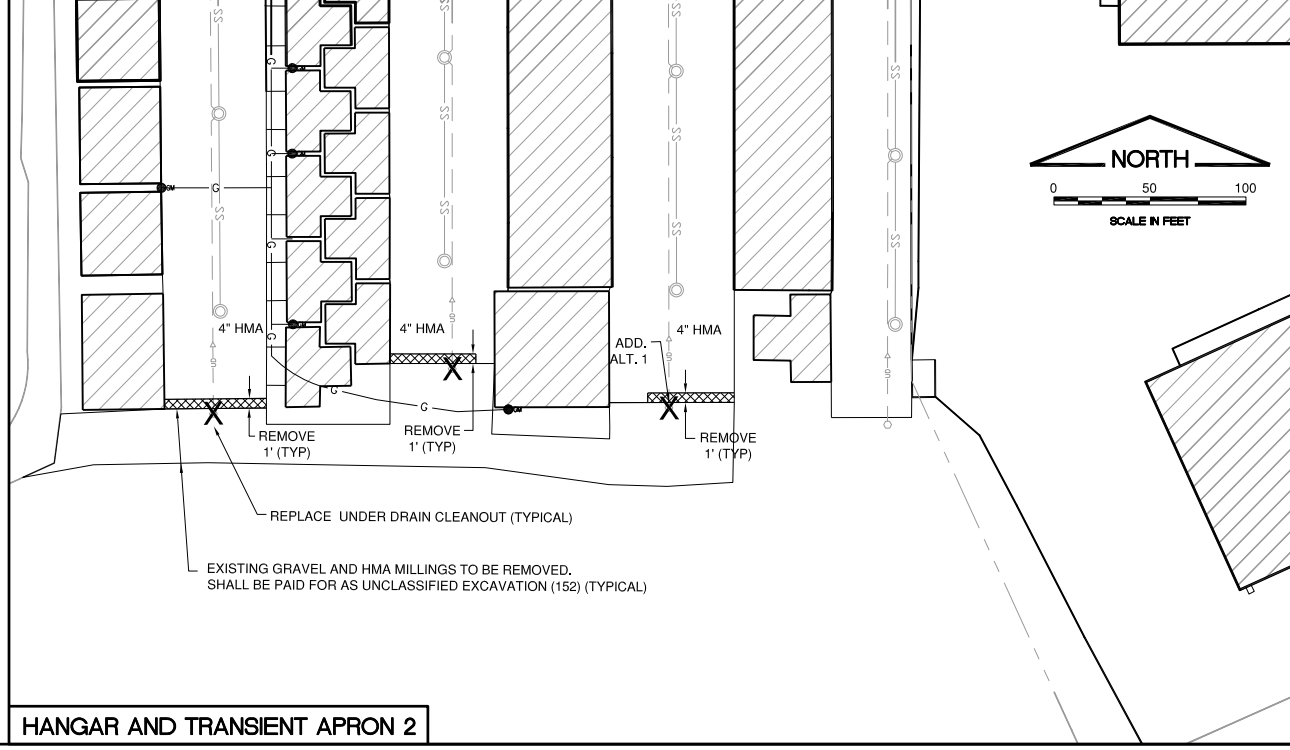


**LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA
 EXISTING CONDITIONS/PROPOSED REMOVALS 1**

LEGEND

| | | | |
|--|---|--|---|
| | NEW PAVEMENT | | EXISTING STAKE MOUNTED TAXIWAY LIGHT |
| | EXISTING BUILDING TO BE DEMOLISHED OR RELOCATED | | EXISTING STAKE MOUNTED LOW INTENSITY RUNWAY LIGHT |
| | EXISTING BITUMINOUS PAVEMENT TO BE REMOVED | | EXISTING STAKE MOUNTED THRESHOLD LIGHT |
| | EXISTING BITUMINOUS PAVEMENT MILL AND OVERLAY | | EXISTING ELEVATED TAXIWAY RETROREFLECTIVE MARKER |
| | EXISTING STORM SEWER | | EXISTING AIRFIELD GUIDANCE SIGN |
| | EXISTING INLET/MANHOLE/HEADWALL | | EXISTING RUNWAY 8/26 CIRCUIT |
| | EXISTING UNDERDRAIN | | EXISTING VASI CIRCUIT |
| | EXISTING UNDERDRAIN CLEANOUT/INSPECTION HOLE | | EXISTING STRUCTURE/LIGHT TO BE REMOVED |
| | EXISTING SANITARY SEWER | | TAXIWAY OBJECT FREE AREA |
| | EXISTING SANITARY MANHOLE | | SOIL BORING |
| | EXISTING ELECTRICAL MANHOLE | | PROPOSED PAVEMENT CORE |
| | EXISTING GAS LINE | | EXISTING STAKE MOUNTED LOW INTENSITY RUNWAY LIGHT |
| | EXISTING COMMUNICATIONS CABLE | | EXISTING RUNWAY 8/26 CIRCUIT |
| | EXISTING WELL | | EXISTING RUNWAY 26 PAPI CIRCUIT |
| | EXISTING SIGN | | PAPI |
| | EXISTING OVERHEAD ELECTRIC | | EXISTING FENCE |
| | EXISTING UNDERGROUND ELECTRIC | | EXISTING COMMUNICATION SPLICE BOX |
| | EXISTING UTILITY POLE | | EXISTING ELECTRICAL HANDHOLE |
| | EXISTING UTILITY POLE WITH TRANSFORMER | | EXISTING GAS RELOCATION |
| | EXISTING WATER LINE | | EXISTING ELECTRICAL METER |
| | EXISTING ELECTRICAL DUCT/CONDUIT | | EXISTING MAILBOX |
| | | | EXISTING FLAGPOLE |
| | | | ITEM TO BE REMOVED |
| | | | ITEM TO BE RELOCATED |

**SEE EXISTING
 CONDITIONS/PROPOSED REMOVALS 2
 FOR NOTES**

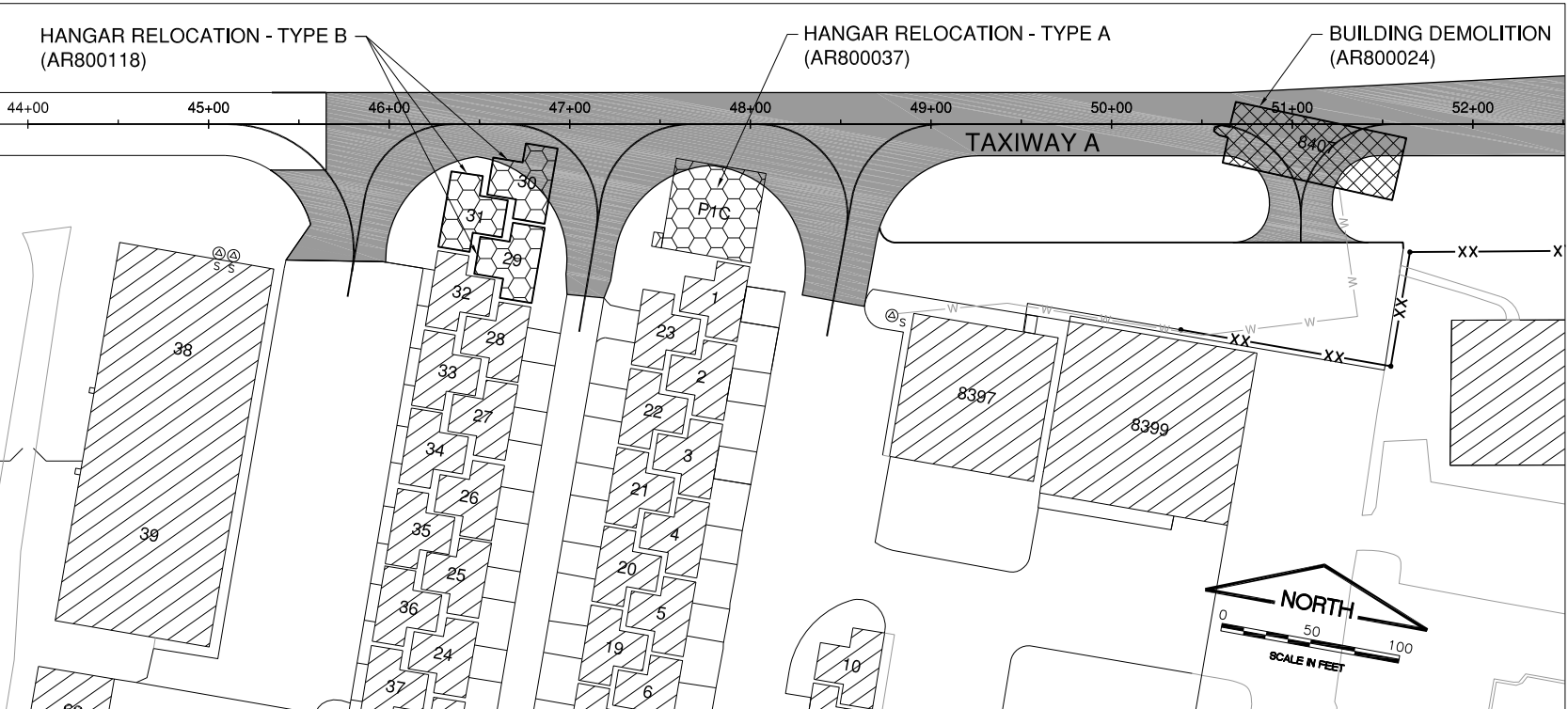


HANGAR AND TRANSIENT APRON 2

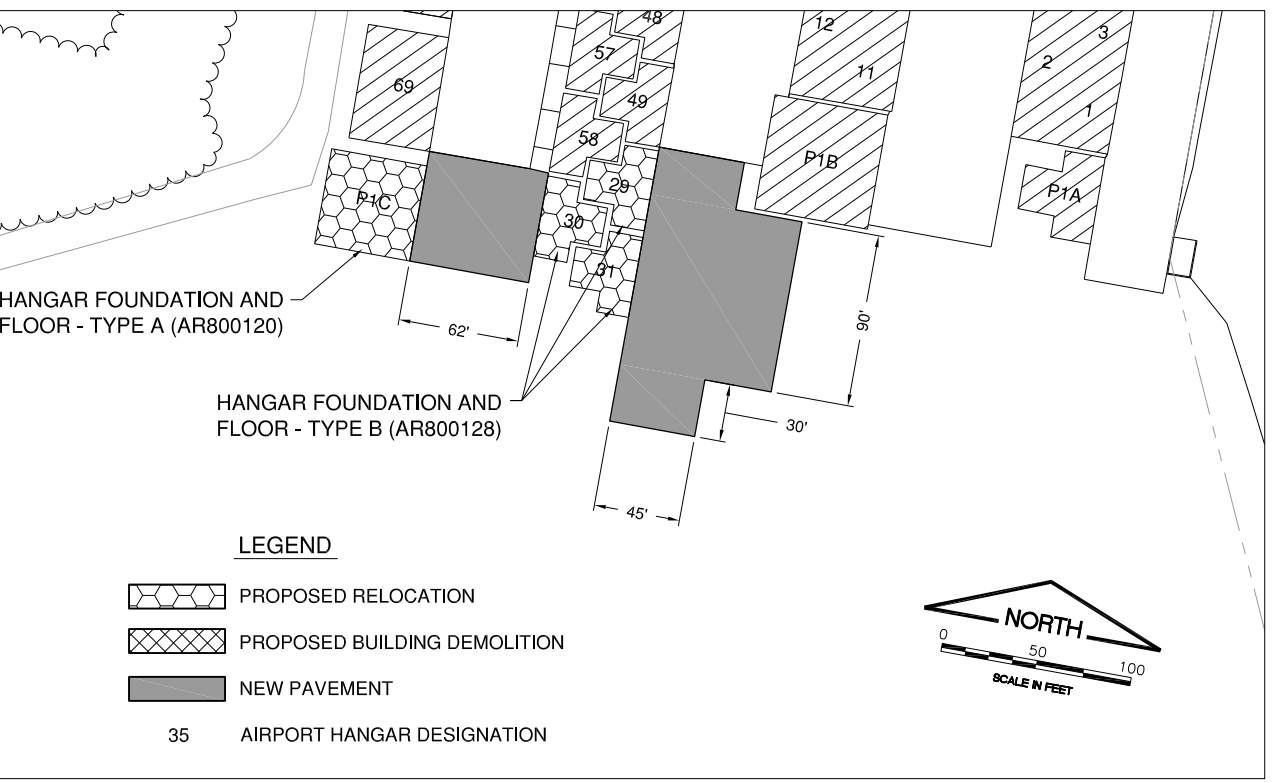
© Copyright CMT, Inc. 2014
**VILLAGE OF
 LAKE IN THE HILLS**

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| DESIGN BY: | TMS |
| DRAWN BY: | JRO |
| CHECKED BY: | DKP |
| APPROVED BY: | DLP |
| DATE: | 12/03/2015 |
| JOB No: | 14255-01 |

EXISTING BUILDING LOCATIONS



RELOCATED BUILDING LOCATIONS



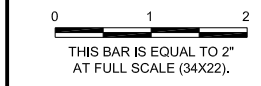
NOTES

1. THESE IMAGES REPRESENT EXISTING GENERAL CONDITIONS AT THE SITE AT THE TIME THE IMAGES WERE TAKEN. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE AND INSPECT THE BUILDING STRUCTURES AND ANY OTHER FEATURE THE CONTRACTOR DEEMS NECESSARY IN ORDER TO SUBMIT A RESPONSIBLE BID FOR THEIR REMOVAL AND RELOCATION OF THE BOX HANGAR, T-HANGARS AND ADMINISTRATION BUILDING.
2. HANGAR TO HANGAR SEPARATION SHALL MEET VILLAGE OF LAKE IN THE HILLS REQUIREMENTS.
3. SEE NOTE 16 OF THE TEMPORARY EROSION CONTROL GENERAL NOTES.

IL. CONTRACT: **LK012**
 IL. LETTING ITEM: **4A**
 IL. PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

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ADMINISTRATION BUILDING PHOTOS



BOX HANGAR (TYPE A) PHOTOS



T-HANGAR (TYPE B) PHOTOS

**LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA**

**BUILDING DEMOLITION AND
 RELOCATION PLAN AND PHOTOS**

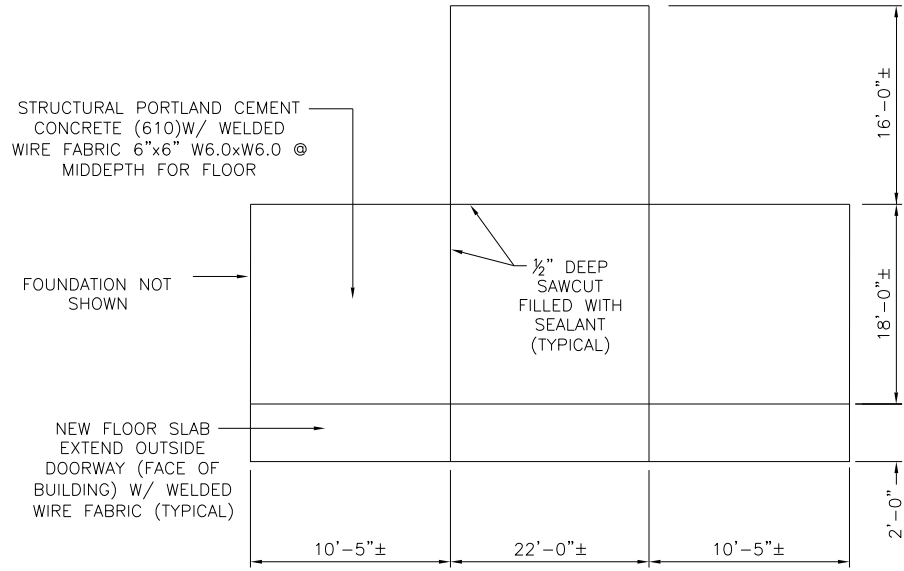
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| DRAWN BY: | JRO |
| CHECKED BY: | DKP |
| APPROVED BY: | DLP |
| DATE: | 12/03/2015 |
| JOB No: | 14255-01 |

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SHEET 13 OF 36 SHEETS

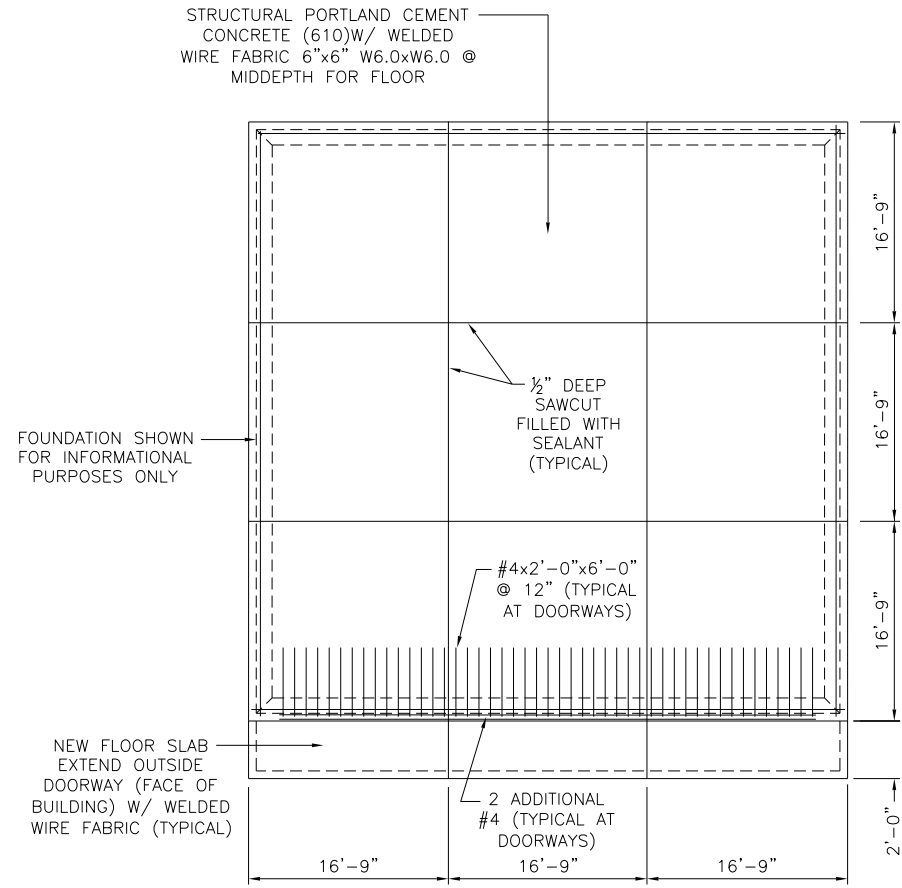
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 UPDATE BY: Jim Ohse
 LAYOUT: Hangar Relocation P&P
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 IMAGE FILES: DSC04782.jpg
 DSC04782.jpg
 DSC04782.jpg
 DSC04783.jpg
 DSC04783.jpg
 DSC04831.jpg
 DSC04831.jpg
 DSC04833.jpg
 P1030646.jpg
 WP_20141209_08_13_46_Pco.jpg

DATE: Tuesday, December 8, 2015 12:13:07 PM
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 UPDATE BY: Jim Ohse
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 DSC04783.jpg
 DSC04831.jpg
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 WP_20141209_08_13_46_Plo.jpg



**HANGAR FOUNDATION AND FLOOR TYPE B
 FLOOR JOINTING PLAN**

NOT TO SCALE



**HANGAR FOUNDATION AND FLOOR TYPE A
 FLOOR JOINTING PLAN**

NOT TO SCALE

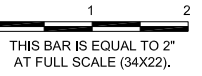
NOTES

1. CONTRACTOR SHALL VERIFY AND MEASURE ALL EXISTING BUILDING AND FLOOR DIMENSIONS BEFORE SUBMITTING SHOP DRAWINGS. DIMENSIONS SHOWN ARE ESTIMATED AND NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR VARIATIONS ACTUALLY ENCOUNTERED.

IL. CONTRACT: **LK012**
 IL. LETTING ITEM: **4A**
 IL. PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # **BOOK # 1263**

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**LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA**

**BUILDING DEMOLITION AND RELOCATION
 NOTES AND DETAILS**

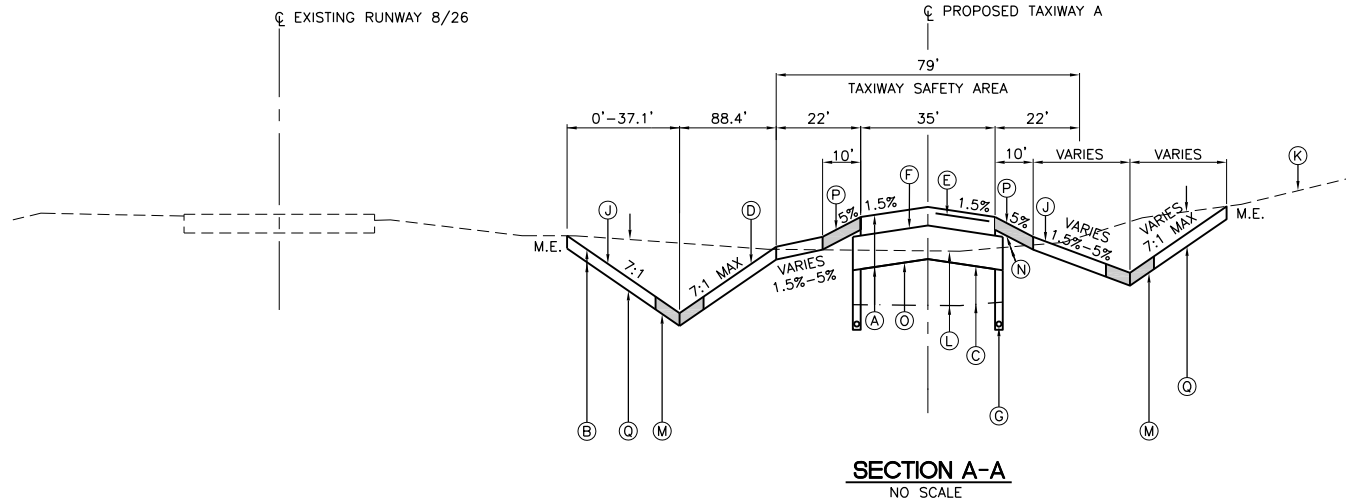
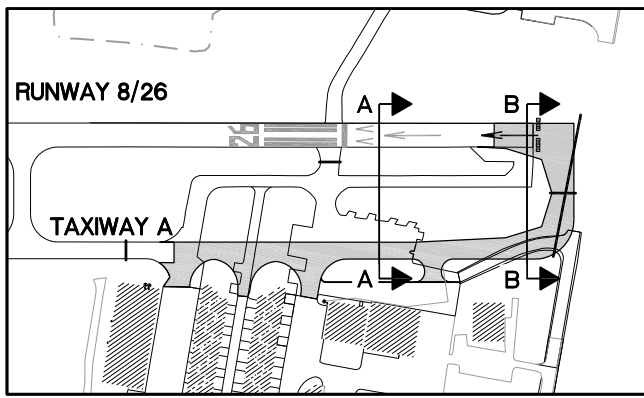


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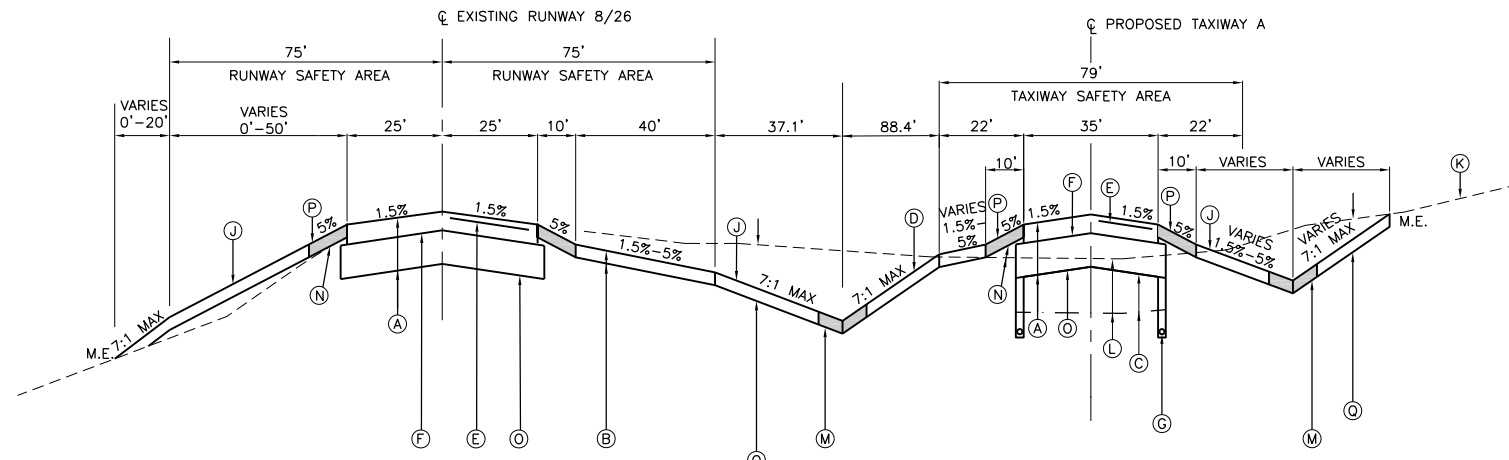


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| DESIGN BY: | TMS |
| DRAWN BY: | JRO |
| CHECKED BY: | DKP |
| APPROVED BY: | DLP |
| DATE: | 12/03/2015 |
| JOB No: | 14255-01 |

FINAL



SECTION A-A
NO SCALE
STA. 45+64.72 TO STA. 51+60.05
TAXIWAY INTERSECTION OMISSION RIGHT FROM STA. 45+64.72 TO STA. 49+25.85
AND STA. 50+61.82 TO STA. 51+46.82



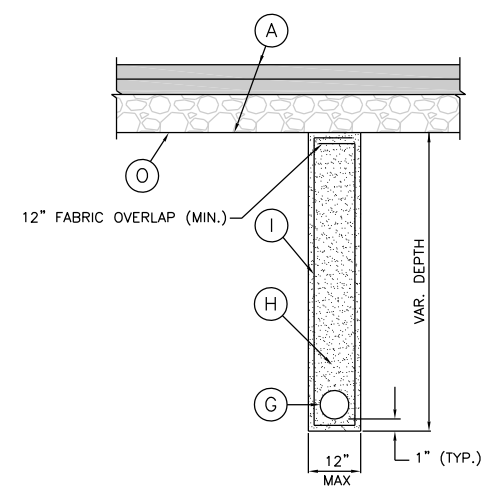
SECTION B-B
NO SCALE
STA. 51+60.05 TO STA. 53+99.08
RUNWAY MILL AND VARIABLE DEPTH OVERLAY OMISSION LEFT FROM STA. 51+60.05 TO STA. 52+32.8
TAXIWAY INTERSECTION OMISSION LEFT FROM STA. 52+56.86 TO STA. 53+99.08

LEGEND

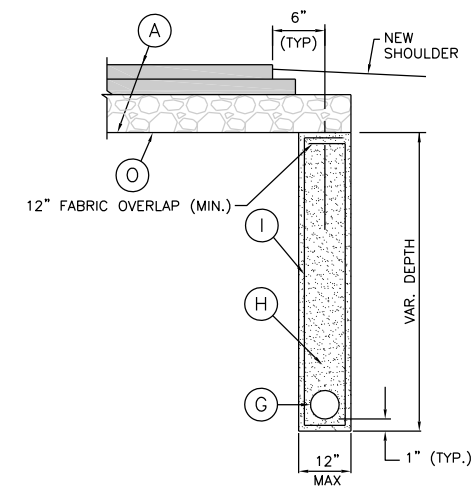
- (A) NEW TAXIWAY PAVEMENT STRUCTURE
1.5" BITUMINOUS SURFACE COURSE (401)
4.5" BITUMINOUS BASE COURSE (403)
8" CRUSHED AGGREGATE BASE COURSE (209)
- (B) NEW TOPSOIL PLACEMENT (4" MIN.)(905)
- (C) NEW EMBANKMENT FILL (152)
- (D) NEW SEEDING AND MULCHING (901 AND 908)
- (E) NEW TACK COAT (603)
- (F) NEW PRIME COAT (602)
- (G) NEW 6" UNDERDRAIN (705)
- (H) NEW POROUS BACKFILL (705) COST INCIDENTAL TO NEW UNDERDRAIN
- (I) NEW UNDERDRAIN TRENCH FABRIC ENVELOPE (705) COST INCIDENTAL TO UNDERDRAIN
- (J) NEW GROUNDLINE
- (K) EXISTING GROUNDLINE
- (L) EXISTING 10"-17" AVERAGE TOPSOIL TO BE STRIPPED (152) NOT SHOWN FOR CLARITY
- (M) NEW SEEDING (901) AND 16' WIDE EROSION CONTROL BLANKET (156)
- (N) NEW SHOULDER FILL (152)
- (O) NEW SOIL STABILIZATION FABRIC (152)
- (P) NEW SEEDING (901) AND 8' WIDE EROSION CONTROL BLANKET (156)
- (Q) UNCLASSIFIED EXCAVATION (152)
- (R) EXISTING HMA PAVEMENT TO BE REMOVED (THICKNESS VARIES BETWEEN 2"-11.5") NOT SHOWN FOR CLARITY (401)
- M.E. MATCH EXISTING

NOTES:

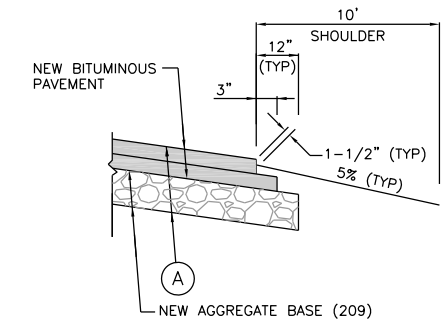
1. TRANSIENT APRON 2 AND NEW HANGAR APRON PAVEMENT SECTIONS ARE THE SAME AS TAXIWAY A



UNDERDRAIN DETAIL - PAVED AREAS
NO SCALE



**UNDERDRAIN DETAIL -
EDGE OF PAVED AREAS**
NO SCALE

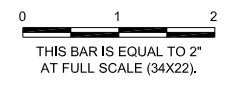


AIRFIELD PAVEMENT EDGE DETAIL
NO SCALE

IL CONTRACT: **LK012**
IL LETTING ITEM: **4A**
IL PROJECT: **3CK-4404**
S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # BOOK # 1263

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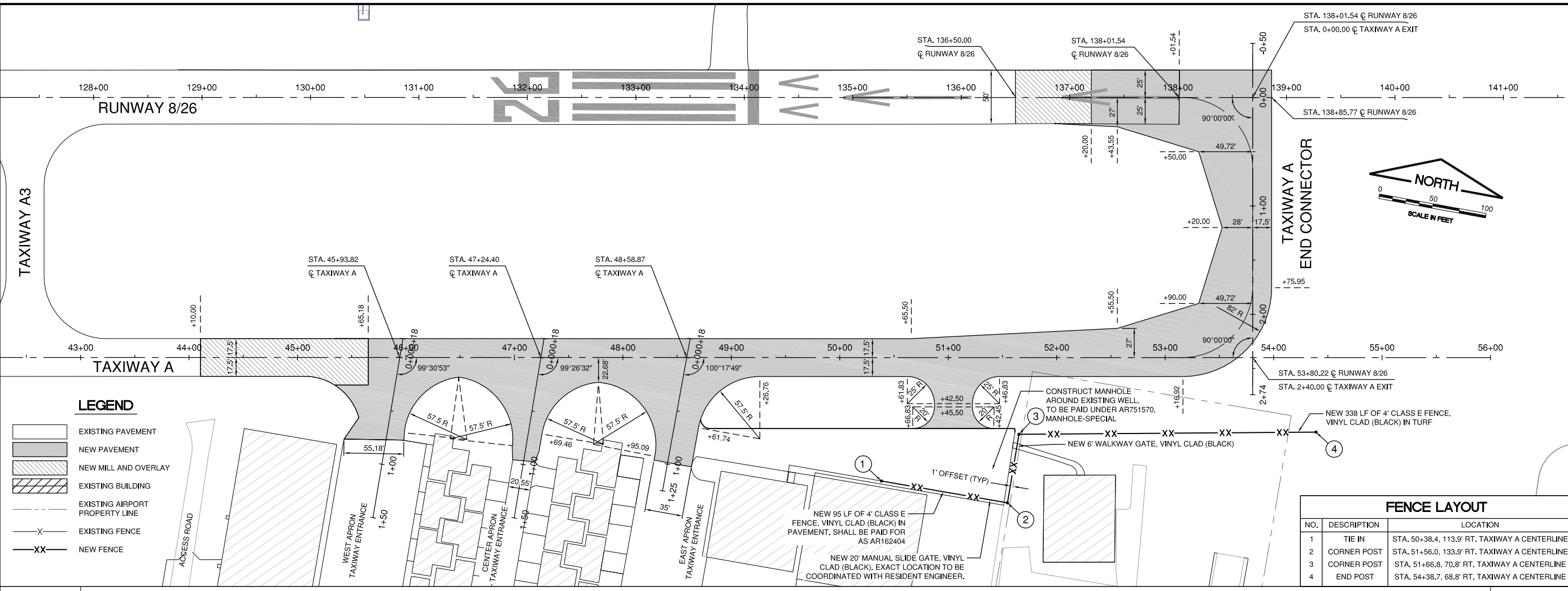
**LAKE IN THE HILLS AIRPORT
LAKE IN THE HILLS, ILLINOIS
IMPROVE RUNWAY 8/26 SAFETY AREA**

TYPICAL SECTIONS

| | |
|--------------|------------|
| DESIGN BY: | TMS |
| DRAWN BY: | JRO |
| CHECKED BY: | DKP |
| APPROVED BY: | DLP |
| DATE: | 12/03/2015 |
| JOB No: | 14255-01 |

FINAL

DATE: Tuesday, December 8, 2015 12:13:47 PM
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 UPDATE BY: Jim O'Hee
 LAYOUT: P&P - Taxiway A Proposed
 REF: DWG: LTH Base Twp A Existing
 CMT: CMT_3C_Cmt3A.dwg
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 CMT_3C_Web_TwpA.dwg
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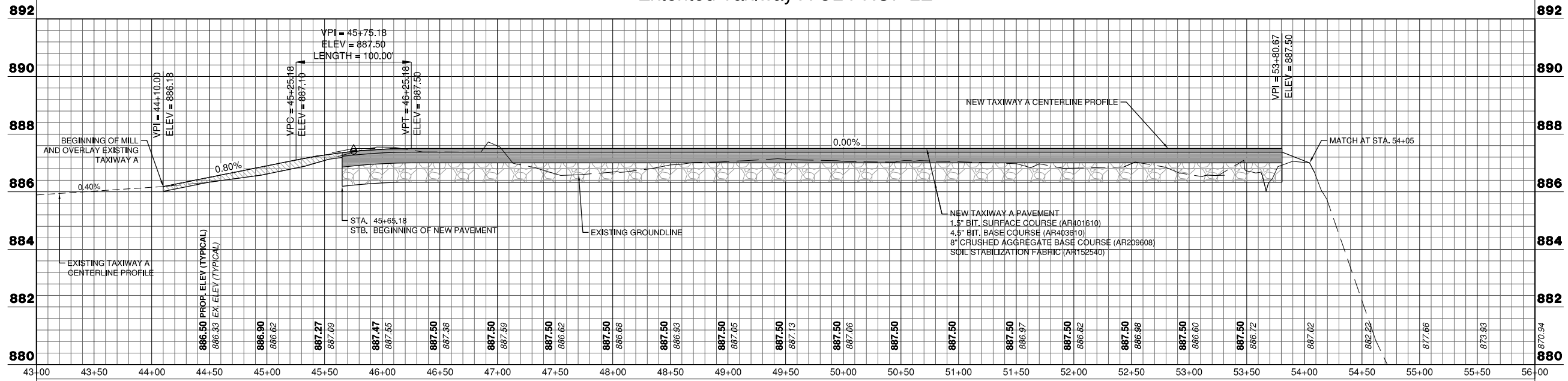
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 IL LETTING ITEM: **4A**
 IL PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # **BOOK # 1263**

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

Extended Taxiway A CL PROFILE



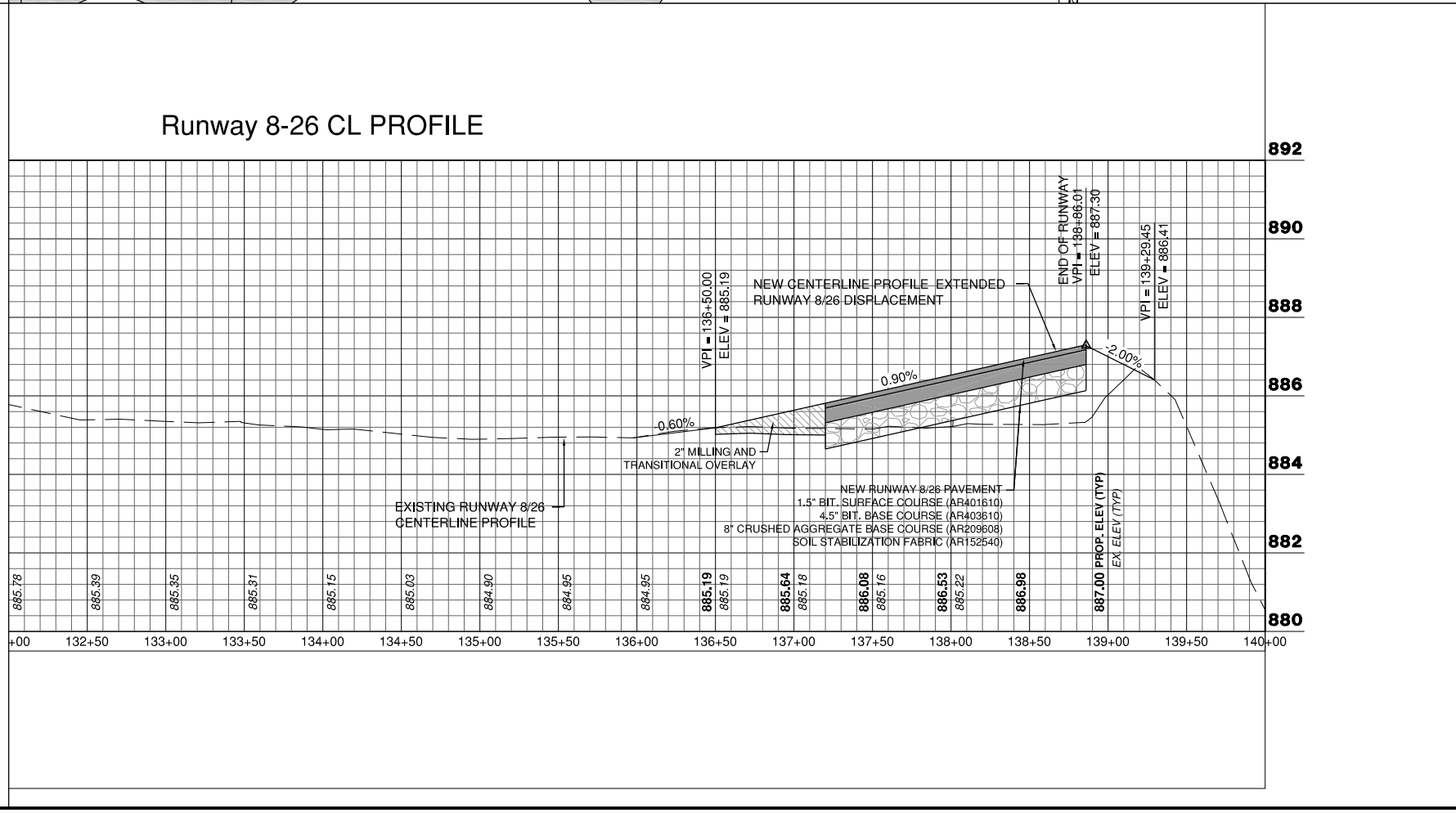
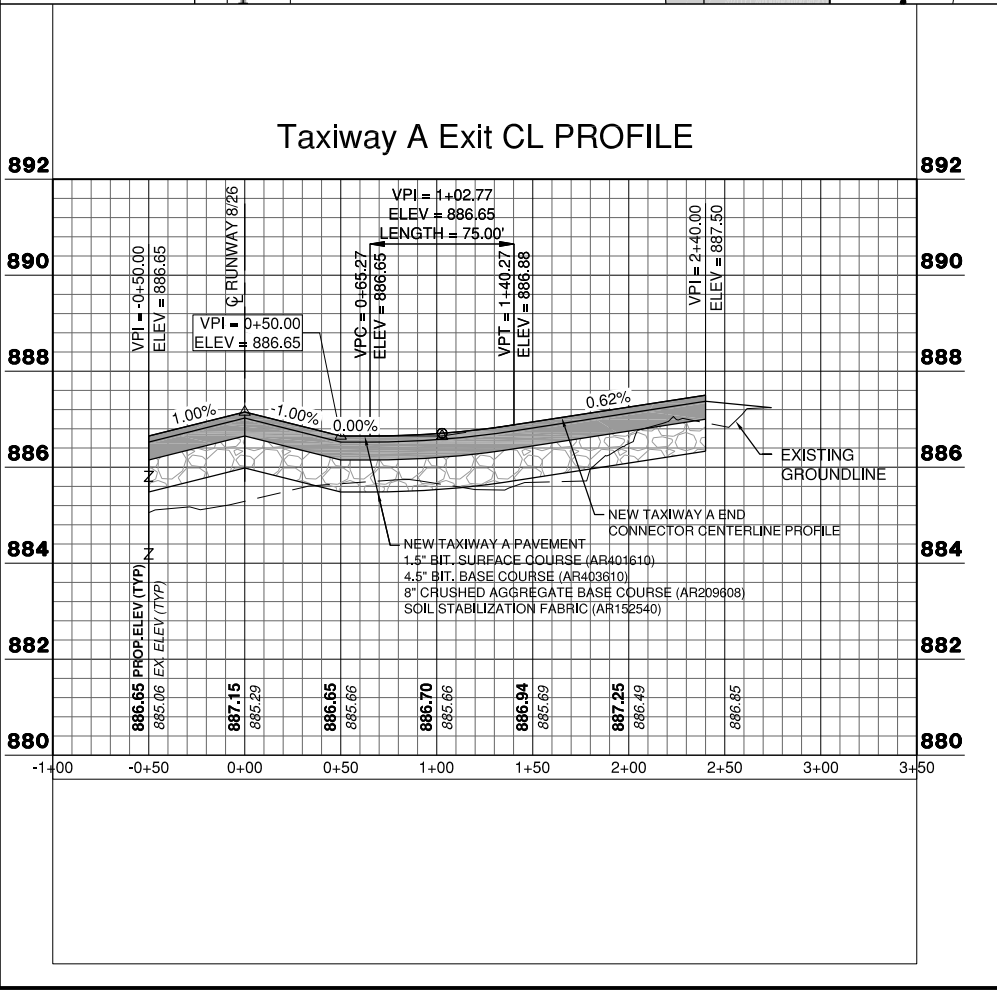
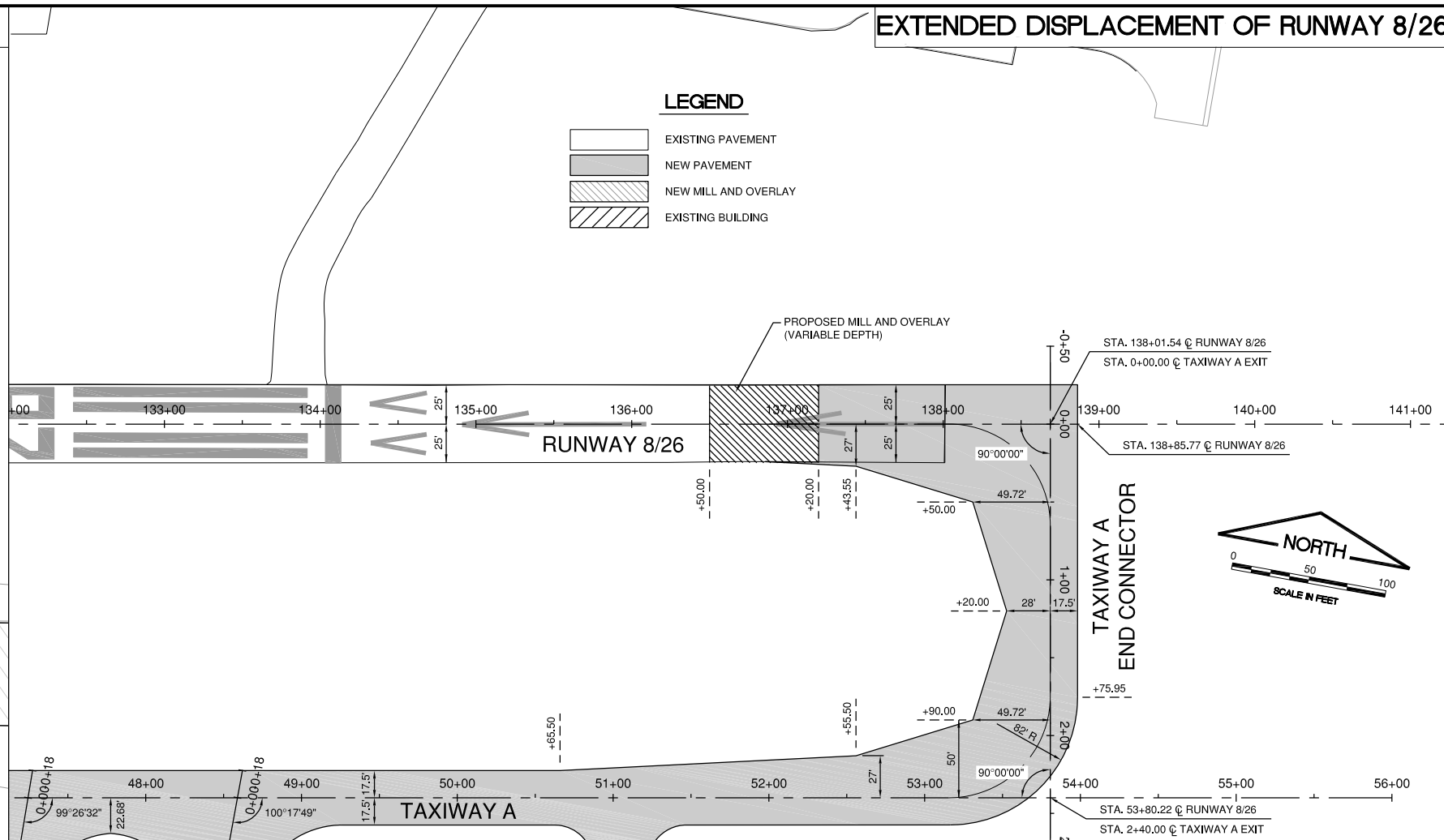
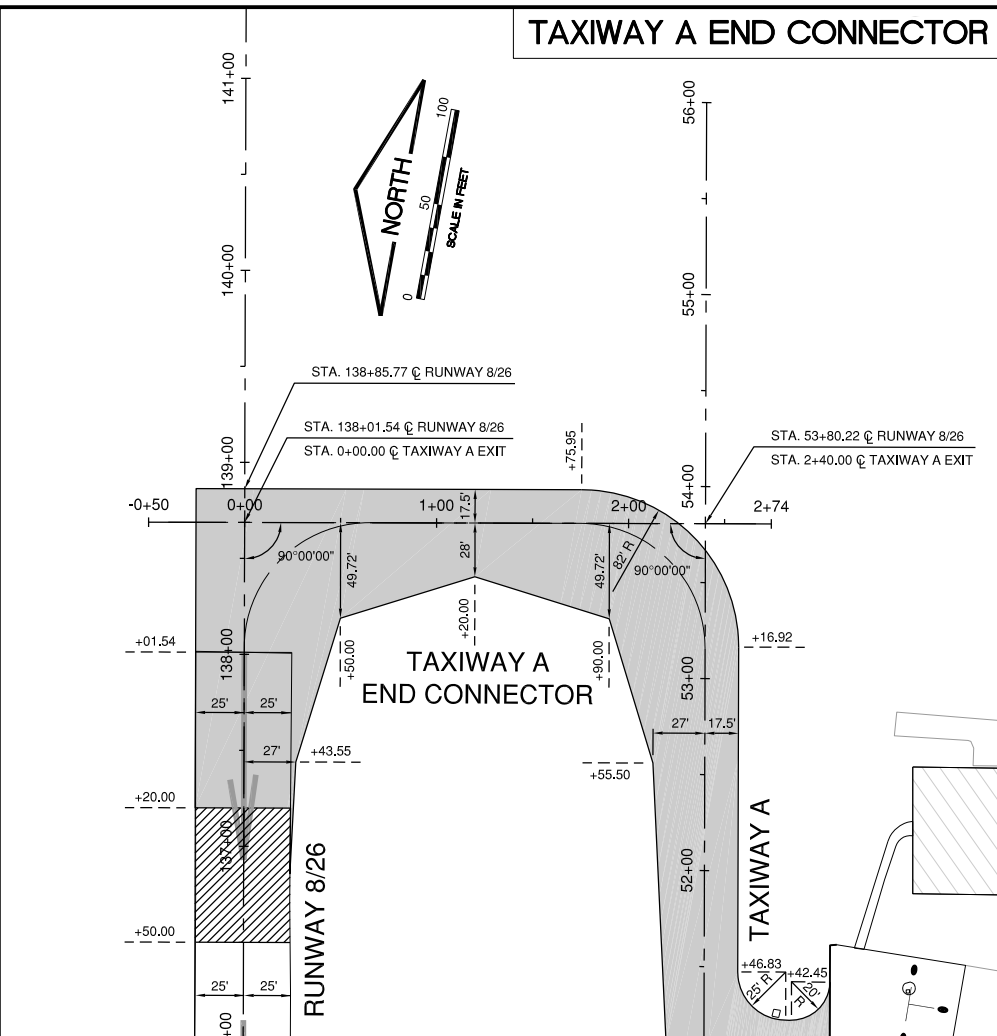
LAKE IN THE HILLS AIRPORT
LAKE IN THE HILLS, ILLINOIS
IMPROVE RUNWAY 8/26 SAFETY AREA
PLAN AND PROFILE
TAXIWAY A

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CMT
 VILLAGE OF
 LAKE IN THE HILLS

DESIGN BY: TMS
 DRAWN BY: JRO
 CHECKED BY: DKP
 APPROVED BY: DLP
 DATE: 12/03/2015
 JOB No: 14255-01

FINAL
 SHEET 16 OF 36 SHEETS

DATE: Tuesday, December 8, 2015 12:13:53 PM
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 UPDATE BY: Jim Ohse
 LAYOUT: P&P - TAXIWAY A Exit & RWY 8/26
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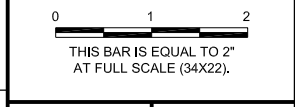
LEGEND

| | |
|----------------------|----------------------|
| [Hatched Box] | EXISTING PAVEMENT |
| [Solid Grey Box] | NEW PAVEMENT |
| [Diagonal Lines Box] | NEW MILL AND OVERLAY |
| [Hatched Box] | EXISTING BUILDING |

IL CONTRACT: LK012
 IL LETTING ITEM: 4A
 IL PROJECT: 3CK-4404
 S.B.G. PROJECT: 3-17-SBGP-XX

SURVEY BOOK # BOOK # 1263

| REVISIONS | | |
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| NUMBER | BY | DATE |
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**LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA**

**PLAN AND PROFILE
 RUNWAY AND CONNECTOR TAXIWAY**

CMT
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VILLAGE OF
 LAKE IN THE HILLS

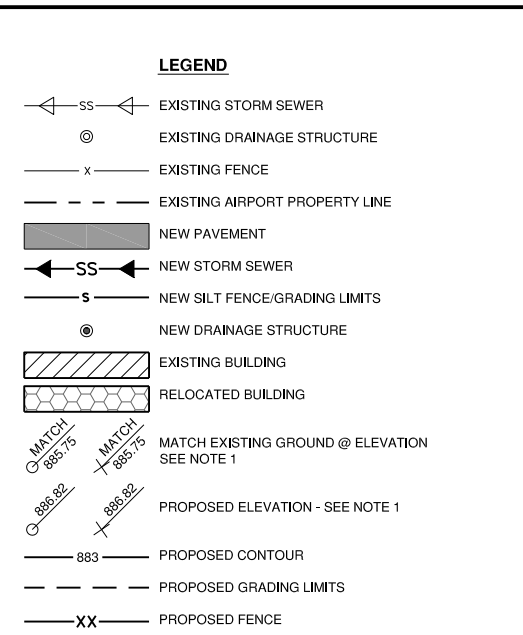
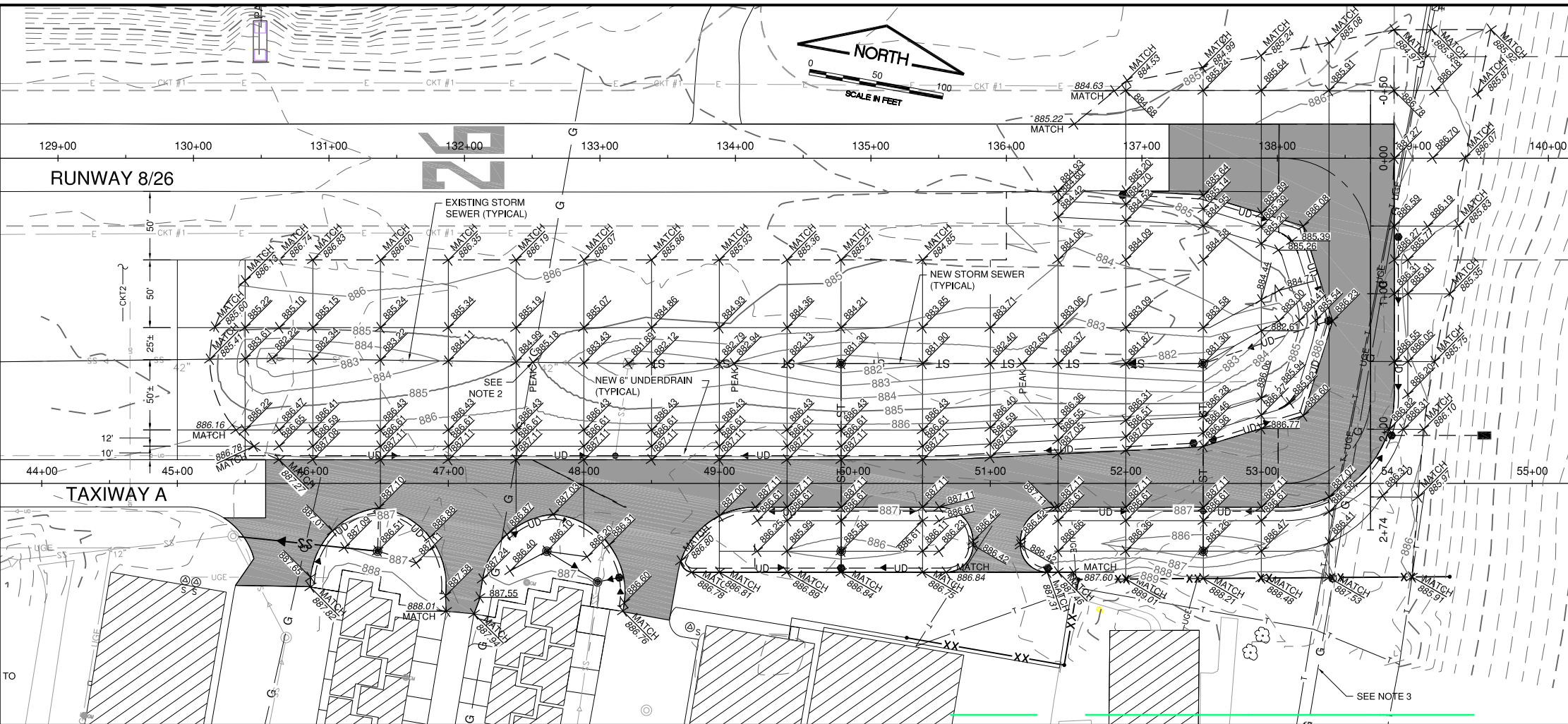
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| DESIGN BY: | TMS |
| DRAWN BY: | JRO |
| CHECKED BY: | DKP |
| APPROVED BY: | DLP |
| DATE: | 12/03/2015 |
| JOB No: | 14255-01 |

DATE: Tuesday, December 9, 2015 12:14:39 PM
FILE: K:\LakeInTheHills\14255-01_TaxiwayApronSite\Plan\Grading\Grading Plan.dwg

UPDATE BY: Jim Chese
LAYOUT: Grading Plan

IMAGE FILES: CMT_3C_Conv.dwg
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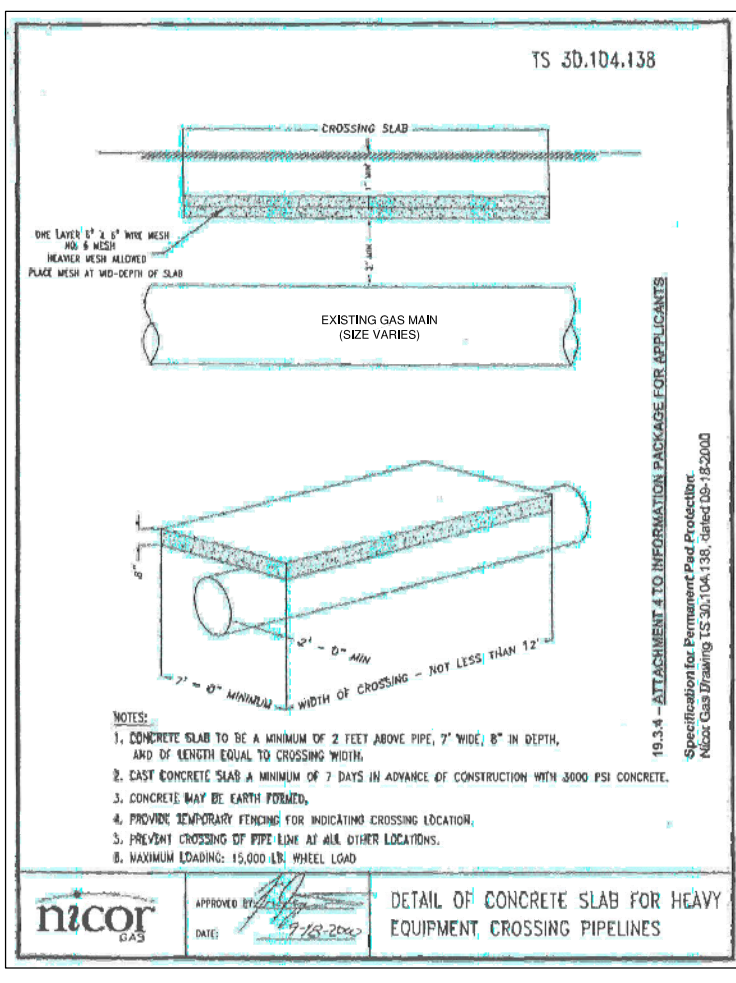
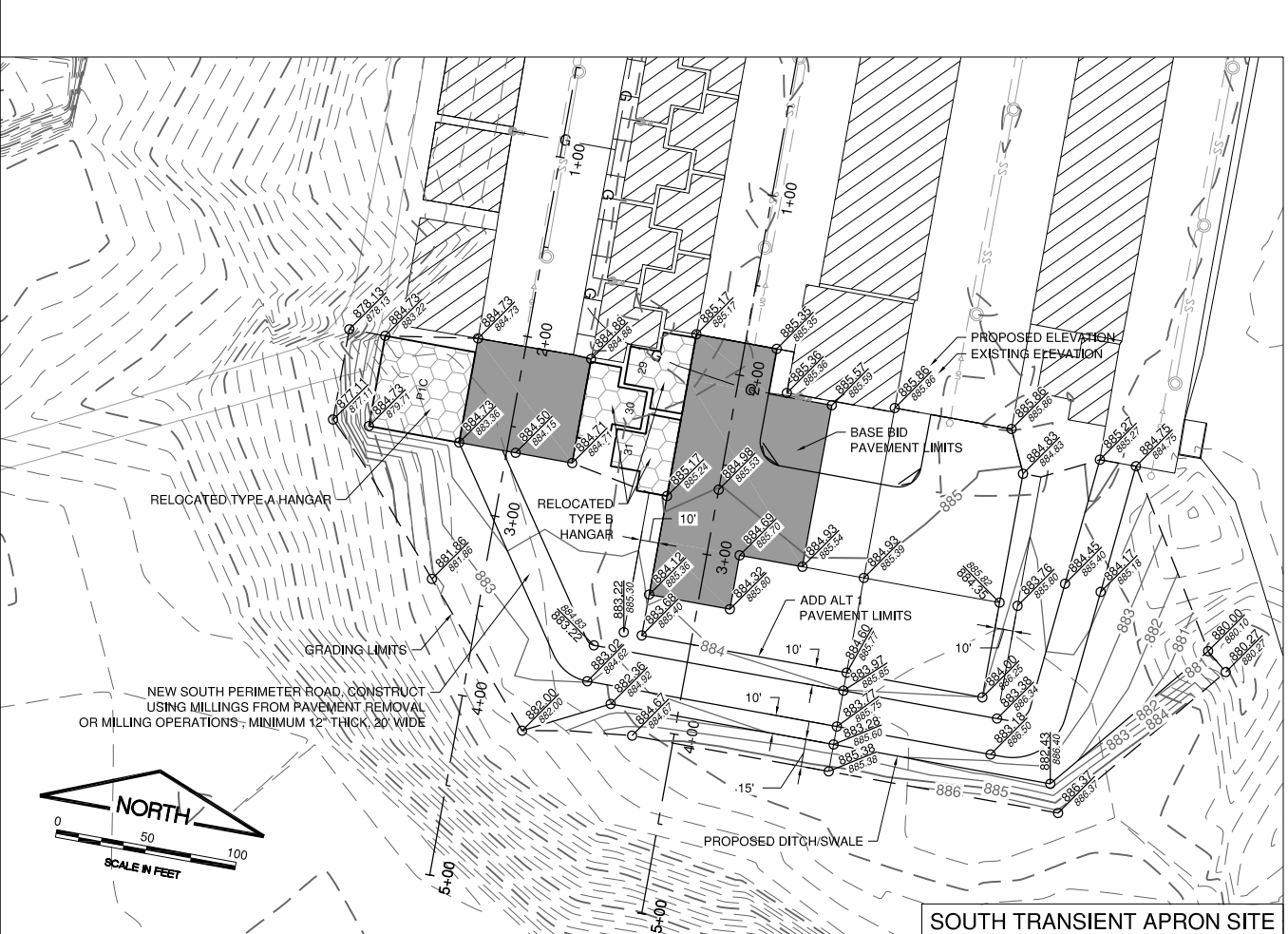


IL CONTRACT: **LK012**
 IL LETTING ITEM: **4A**
 IL PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # BOOK # 1263

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



- NOTES:**
- ALL ELEVATIONS SHOWN FOR TAXIWAY A, END CONNECTOR TAXIWAY A AND RUNWAY 8/26 ARE TURF GRADES. SEE INTERSECTION GRADING DETAILS SHEET FOR PAVEMENT GRADES.
 - WHERE LESS THAN 30" COVER CAN BE PROVIDED OVER EXISTING NICOR GAS MAIN OF ANY SIZE, THE CONTRACTOR SHALL CONSTRUCT A PROTECTIVE PAD IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET EXCEPT THAT FROM THE TOP OF THE PROTECTIVE PAD TO THE FINAL GROUNDLINE SHALL BE A MINIMUM OF 6" AND THE DEPTH FROM THE BOTTOM OF THE PAD TO THE TOP OF THE EXISTING GAS MAIN SHALL BE A MINIMUM OF 10"-12". ALL WORK REQUIRED FOR THE PROTECTIVE PAD, INCLUDING EXCAVATION, WELDED WIRE FABRIC, ITEM 610 CONCRETE, ETC., SHALL BE PAID UNDER ITEM AR610510, STRUCTURAL PC CONCRETE.
 - WHERE THE CONTRACTOR ELECTS TO CONTINUOUSLY CROSS EXISTING GAS MAIN (CROSSING ROUTE), HE SHALL CONSTRUCT A PROTECTIVE PAD IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET OR PROTECT THE MAIN(S) BY OTHER MEANS. THE CONTRACTOR SHALL CONTACT NICOR IN ADVANCE OF ESTABLISHING HIS HAUL ROUTES THAT CROSS ACTIVE GAS MAINS TO DETERMINE SUITABLE PROTECTIVE MEASURES. PROTECTION OF EXISTING UTILITIES DURING HAUL OPERATIONS SHALL NOT BE PAID, AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
 - CONTRACTOR SHALL GRADE THE SOUTH TRANSIENT APRON SITE TO THE ULTIMATE BUILD OUT LIMITS UNDER THE BASE BID. SHOULD ADDITIVE ALTERNATE #1 BE AWARDED, THE GRADING SHOWN WILL NOT BE CHANGED. ADDITIONAL GRADES CAN BE FURNISHED AT CONTRACTOR REQUEST DURING CONSTRUCTION.
 - COSTS TO PLACE, SHAPE AND COMPACT THE MILLINGS FOR THE SOUTH PERIMETER ROAD SHOWN AT THE SOUTH TRANSIENT APRON SITE SHALL BE INCLUDED UNDER ITEM AR152410, UNCLASSIFIED EXCAVATION AND NO ADDITIONAL PAYMENT WILL BE MADE.

LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA

GRADING PLAN

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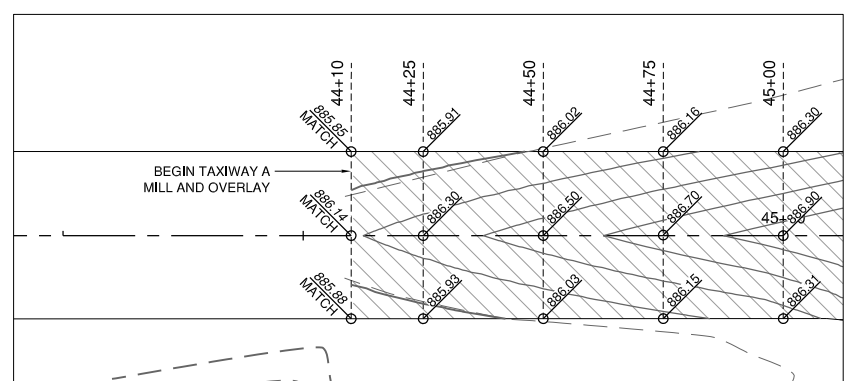
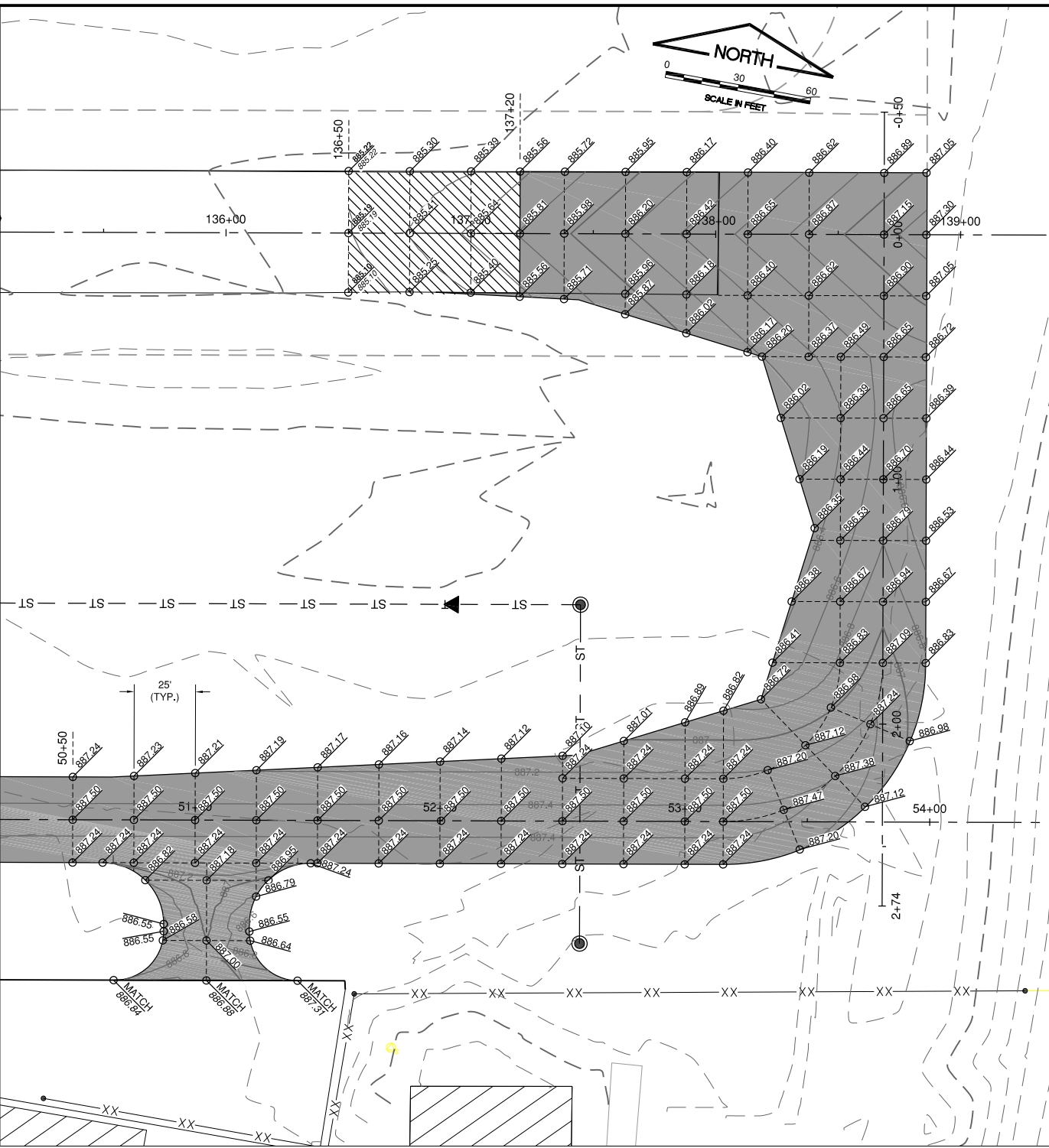
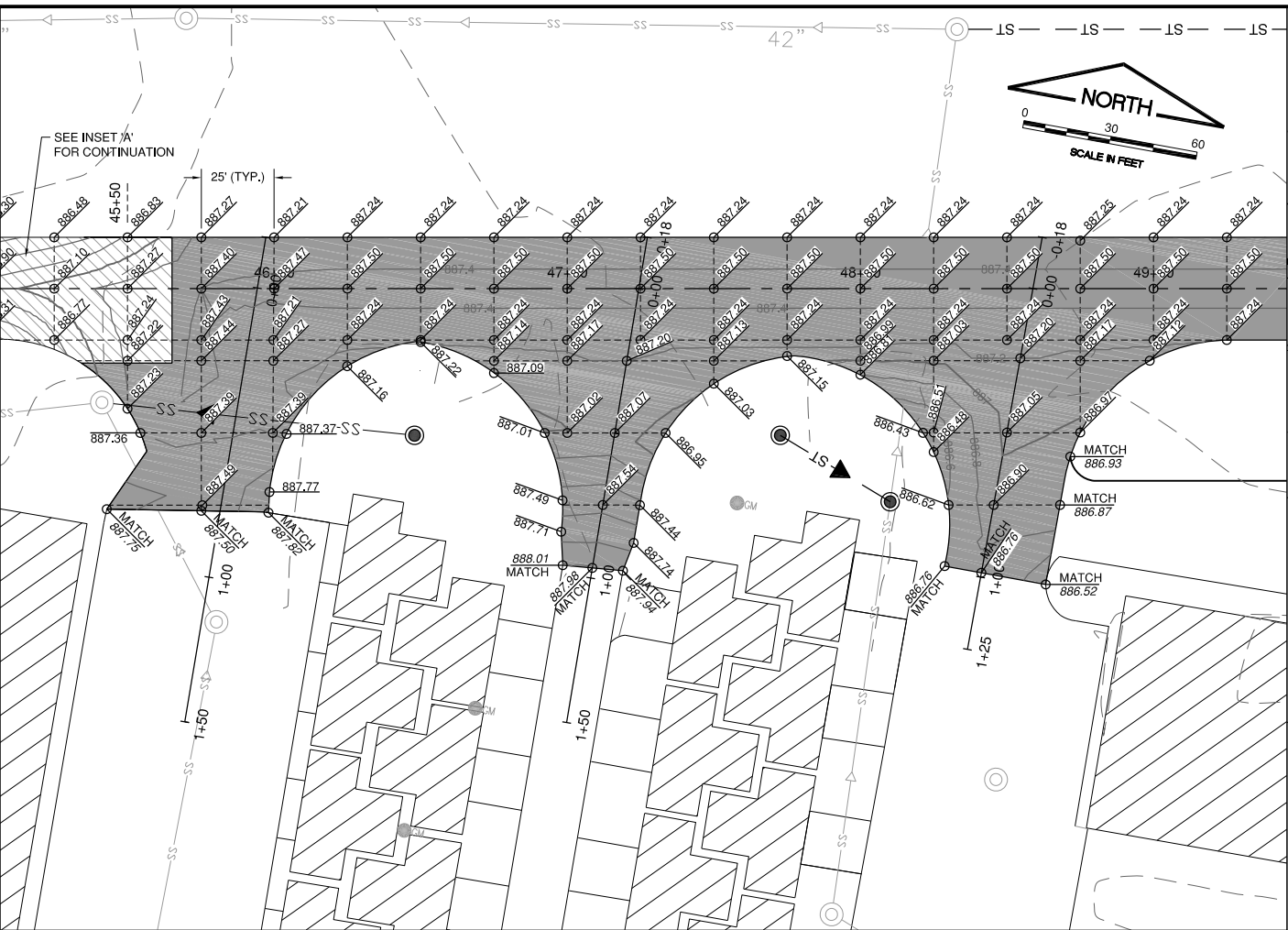
CMT
 VILLAGE OF LAKE IN THE HILLS

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| DESIGN BY: | TMS |
| DRAWN BY: | JRO |
| CHECKED BY: | DKP |
| APPROVED BY: | DLP |
| DATE: | 12/03/2015 |
| JOB No: | 14255-01 |

FINAL

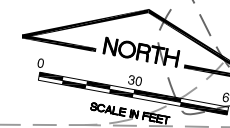
SHEET 18 OF 36 SHEETS

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 UPDATE BY: Jim Ohse
 LAYOUT: Intersection Grade Details
 REF: DIMS: LITH Base Twp A Extension
 CMT: MGS T.Brown
 IMAGE FILES: CMT: 3C cmt\k.jpg
 CMT: Lake_in_the_hills
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INSET 'A'
 SCALE: 1" = 20'

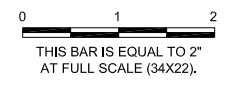
- LEGEND**
- SS— EXISTING STORM SEWER
 - ⊙ EXISTING DRAINAGE STRUCTURE
 - x EXISTING FENCE
 - - - EXISTING AIRPORT PROPERTY LINE
 - NEW PAVEMENT
 - ▨ NEW MILL AND OVERLAY
 - ←SS← NEW STORM SEWER
 - s NEW SILT FENCE/GRADING LIMITS
 - ⊙ NEW DRAINAGE STRUCTURE
 - ▨ EXISTING BUILDING
 - ▨ RELOCATED BUILDING
 - MATCH 886.76 MATCH EXISTING GROUND @ ELEVATION
 - 887.24 PROPOSED ELEVATION
 - 883— PROPOSED CONTOUR
 - - - PROPOSED GRADING LIMITS
 - XX— PROPOSED FENCE



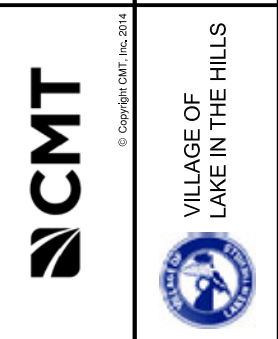
IL CONTRACT: **LK012**
 IL LETTING ITEM: **4A**
 IL PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # **BOOK # 1263**

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**LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA
 INTERSECTION GRADE DETAILS**

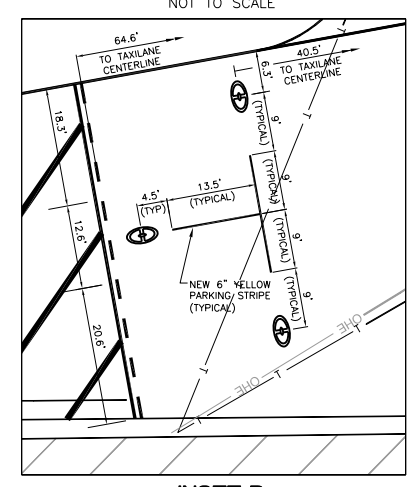
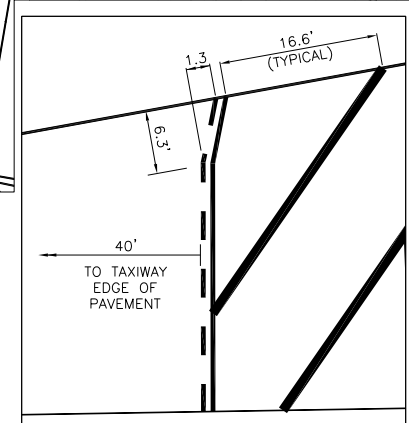
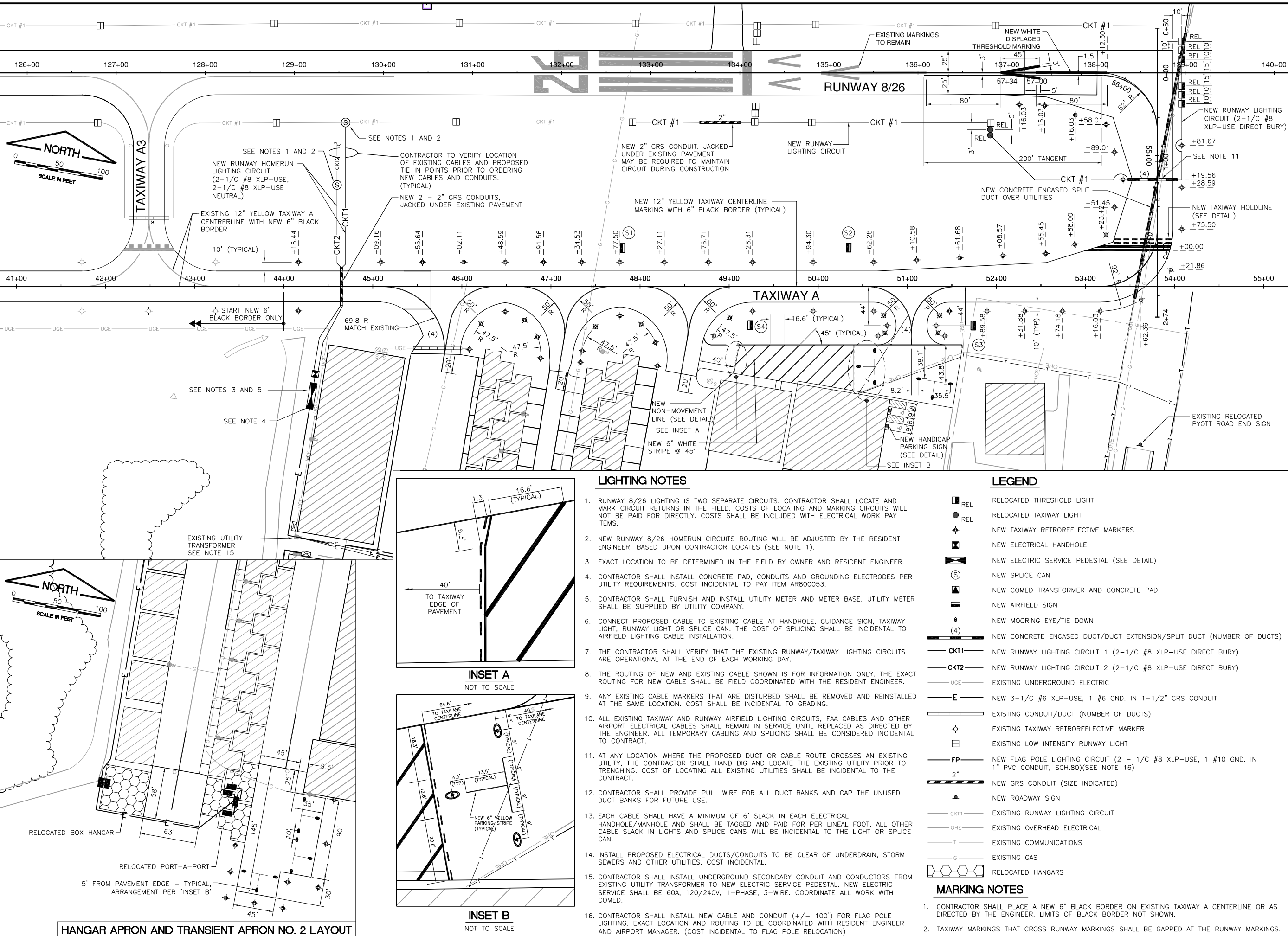


DESIGN BY: TMS
 DRAWN BY: JRO
 CHECKED BY: DKP
 APPROVED BY: DLP
 DATE: 12/03/2015
 JOB No: 14255-01

FINAL

NOTE:
 ALL ELEVATIONS SHOWN ARE PAVEMENT GRADES. SEE GRADING PLAN SHEET FOR TURF GRADES.

DATE: Tuesday, December 8, 2015 12:17:26 PM
 FILE: K:\LakeInTheHills\14255-01_TaxiwayExtension\Draw Sheets\Preliminary Plans\Lighting\marking.dwg
 UPDATE BY: Jim Ohse
 LAYOUT: Lite&elec&sign&mark Plan
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 KREF DWG: LIT Base for A Ext.dwg
 CUT NOS Bkmg
 CUT CD_Sgn_Library_D9-6(BM).dwg



LIGHTING NOTES

1. RUNWAY 8/26 LIGHTING IS TWO SEPARATE CIRCUITS. CONTRACTOR SHALL LOCATE AND MARK CIRCUIT RETURNS IN THE FIELD. COSTS OF LOCATING AND MARKING CIRCUITS WILL NOT BE PAID FOR DIRECTLY. COSTS SHALL BE INCLUDED WITH ELECTRICAL WORK PAY ITEMS.
2. NEW RUNWAY 8/26 HOMERUN CIRCUITS ROUTING WILL BE ADJUSTED BY THE RESIDENT ENGINEER, BASED UPON CONTRACTOR LOCATES (SEE NOTE 1).
3. EXACT LOCATION TO BE DETERMINED IN THE FIELD BY OWNER AND RESIDENT ENGINEER.
4. CONTRACTOR SHALL INSTALL CONCRETE PAD, CONDUITS AND GROUNDING ELECTRODES PER UTILITY REQUIREMENTS. COST INCIDENTAL TO PAY ITEM AR800053.
5. CONTRACTOR SHALL FURNISH AND INSTALL UTILITY METER AND METER BASE. UTILITY METER SHALL BE SUPPLIED BY UTILITY COMPANY.
6. CONNECT PROPOSED CABLE TO EXISTING CABLE AT HANDHOLE, GUIDANCE SIGN, TAXIWAY LIGHT, RUNWAY LIGHT OR SPLICE CAN. THE COST OF SPLICING SHALL BE INCIDENTAL TO AIRFIELD LIGHTING CABLE INSTALLATION.
7. THE CONTRACTOR SHALL VERIFY THAT THE EXISTING RUNWAY/TAXIWAY LIGHTING CIRCUITS ARE OPERATIONAL AT THE END OF EACH WORKING DAY.
8. THE ROUTING OF NEW AND EXISTING CABLE SHOWN IS FOR INFORMATION ONLY. THE EXACT ROUTING FOR NEW CABLE SHALL BE FIELD COORDINATED WITH THE RESIDENT ENGINEER.
9. ANY EXISTING CABLE MARKERS THAT ARE DISTURBED SHALL BE REMOVED AND REINSTALLED AT THE SAME LOCATION. COST SHALL BE INCIDENTAL TO GRADING.
10. ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS DIRECTED BY THE ENGINEER. ALL TEMPORARY CABLING AND SPLICING SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.
11. AT ANY LOCATION WHERE THE PROPOSED DUCT OR CABLE ROUTE CROSSES AN EXISTING UTILITY, THE CONTRACTOR SHALL HAND DIG AND LOCATE THE EXISTING UTILITY PRIOR TO TRENCHING. COST OF LOCATING ALL EXISTING UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT.
12. CONTRACTOR SHALL PROVIDE PULL WIRE FOR ALL DUCT BANKS AND CAP THE UNUSED DUCT BANKS FOR FUTURE USE.
13. EACH CABLE SHALL HAVE A MINIMUM OF 6' SLACK IN EACH ELECTRICAL HANDHOLE/MANHOLE AND SHALL BE TAGGED AND PAID FOR PER LINEAL FOOT. ALL OTHER CABLE SLACK IN LIGHTS AND SPLICE CANS WILL BE INCIDENTAL TO THE LIGHT OR SPLICE CAN.
14. INSTALL PROPOSED ELECTRICAL DUCTS/CONDUITS TO BE CLEAR OF UNDERDRAIN, STORM SEWERS AND OTHER UTILITIES, COST INCIDENTAL.
15. CONTRACTOR SHALL INSTALL UNDERGROUND SECONDARY CONDUIT AND CONDUCTORS FROM EXISTING UTILITY TRANSFORMER TO NEW ELECTRIC SERVICE PEDESTAL. NEW ELECTRIC SERVICE SHALL BE 60A, 120/240V, 1-PHASE, 3-WIRE. COORDINATE ALL WORK WITH COMED.
16. CONTRACTOR SHALL INSTALL NEW CABLE AND CONDUIT (+/- 100') FOR FLAG POLE LIGHTING. EXACT LOCATION AND ROUTING TO BE COORDINATED WITH RESIDENT ENGINEER AND AIRPORT MANAGER. (COST INCIDENTAL TO FLAG POLE RELOCATION)

LEGEND

- RELOCATED THRESHOLD LIGHT
- RELOCATED TAXIWAY LIGHT
- NEW TAXIWAY RETROREFLECTIVE MARKERS
- NEW ELECTRICAL HANDHOLE
- NEW ELECTRIC SERVICE PEDESTAL (SEE DETAIL)
- NEW SPLICE CAN
- NEW COMED TRANSFORMER AND CONCRETE PAD
- NEW AIRFIELD SIGN
- NEW MOORING EYE/TIE DOWN
- NEW CONCRETE ENCASED DUCT/DUCT EXTENSION/SPLIT DUCT (NUMBER OF DUCTS)
- NEW RUNWAY LIGHTING CIRCUIT 1 (2-1/C #8 XLP-USE DIRECT BURY)
- NEW RUNWAY LIGHTING CIRCUIT 2 (2-1/C #8 XLP-USE DIRECT BURY)
- EXISTING UNDERGROUND ELECTRIC
- NEW 3-1/C #6 XLP-USE, 1 #6 GND. IN 1-1/2" GRS CONDUIT
- EXISTING CONDUIT/DUCT (NUMBER OF DUCTS)
- EXISTING TAXIWAY RETROREFLECTIVE MARKER
- EXISTING LOW INTENSITY RUNWAY LIGHT
- NEW FLAG POLE LIGHTING CIRCUIT (2 - 1/C #8 XLP-USE, 1 #10 GND. IN 1" PVC CONDUIT, SCH.80)(SEE NOTE 16)
- NEW GRS CONDUIT (SIZE INDICATED)
- NEW ROADWAY SIGN
- EXISTING RUNWAY LIGHTING CIRCUIT
- EXISTING OVERHEAD ELECTRICAL
- EXISTING COMMUNICATIONS
- EXISTING GAS
- RELOCATED HANGARS

MARKING NOTES

1. CONTRACTOR SHALL PLACE A NEW 6" BLACK BORDER ON EXISTING TAXIWAY A CENTERLINE OR AS DIRECTED BY THE ENGINEER. LIMITS OF BLACK BORDER NOT SHOWN.
2. TAXIWAY MARKINGS THAT CROSS RUNWAY MARKINGS SHALL BE GAPPED AT THE RUNWAY MARKINGS.

IL. CONTRACT: **LK012**
 IL. LETTING ITEM: **4A**
 IL. PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # BOOK # 1263

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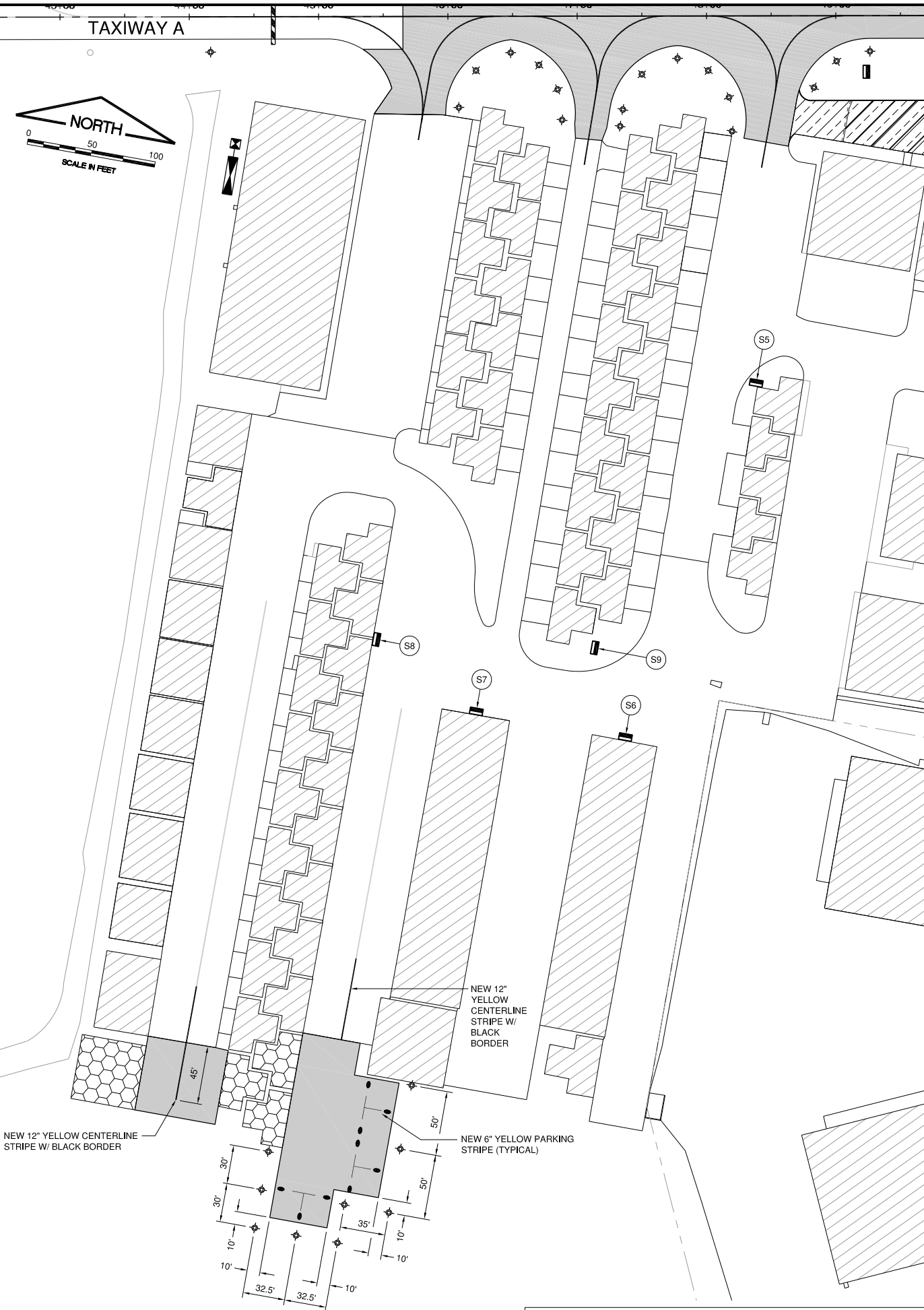
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 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

LAKE IN THE HILLS AIRPORT
LAKE IN THE HILLS, ILLINOIS
IMPROVE RUNWAY 8/26 SAFETY AREA
LIGHTING, ELECTRICAL AND PAVEMENT MARKING PLAN - 1

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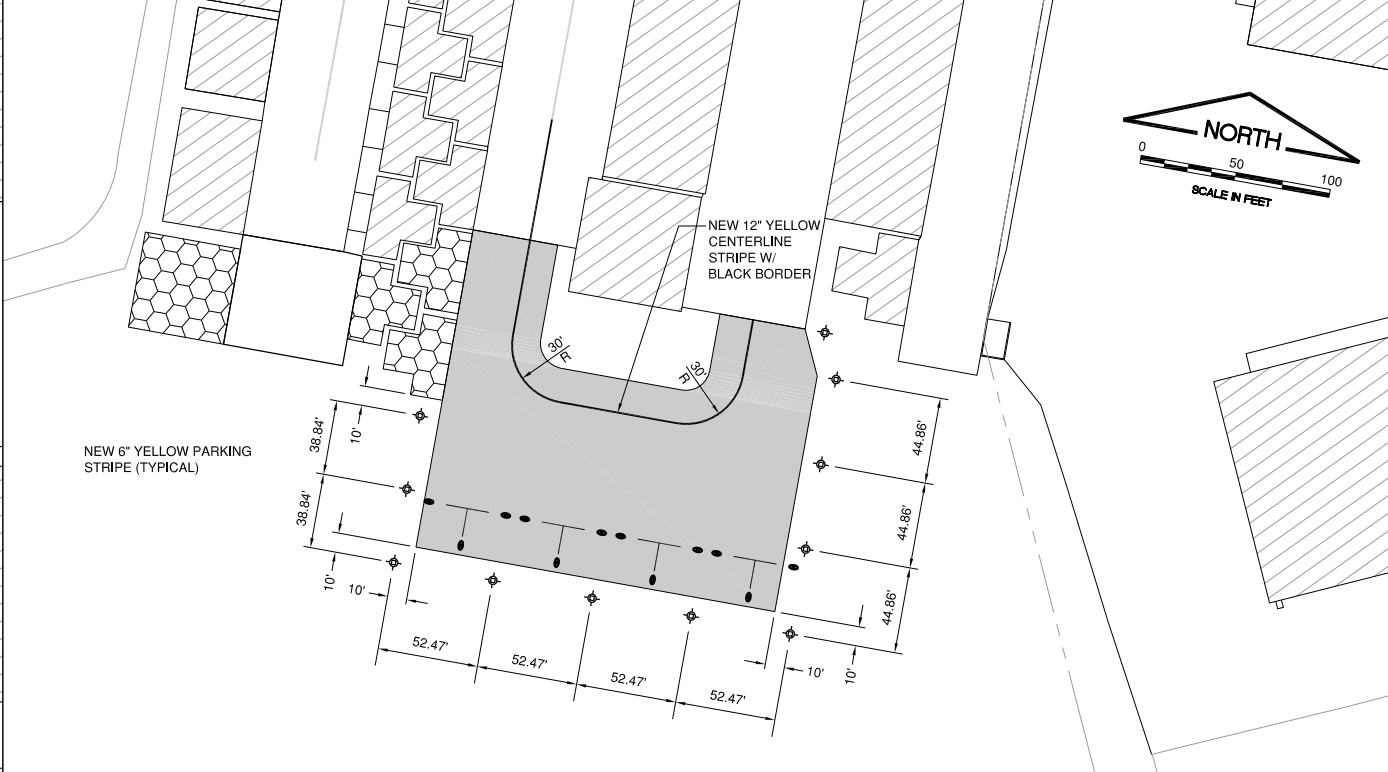
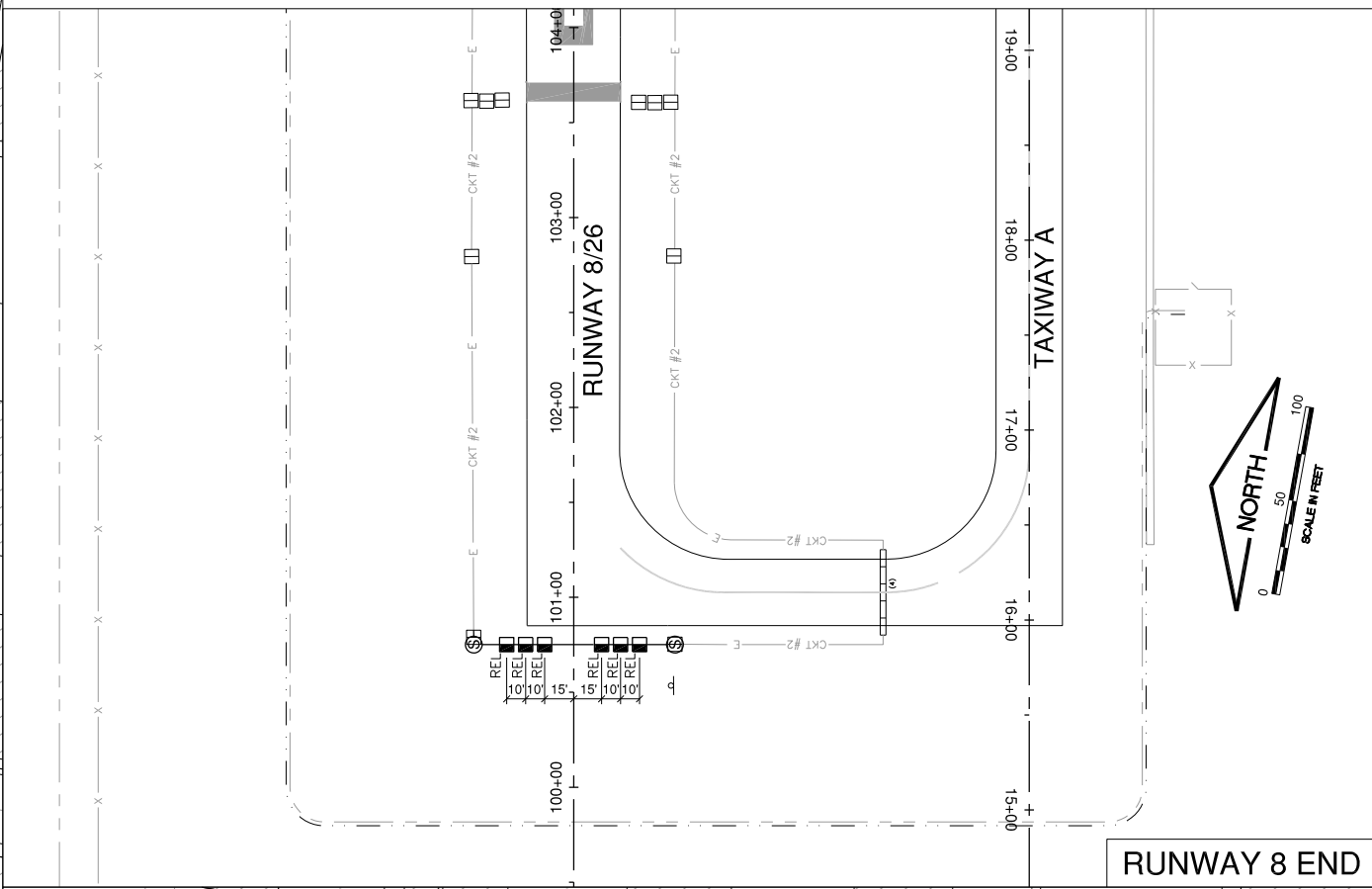
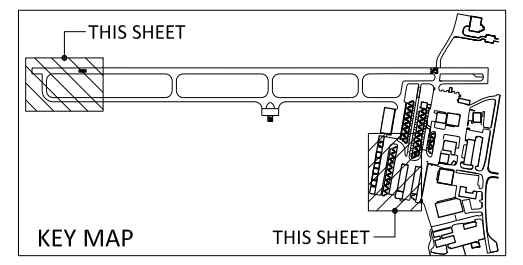
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| DESIGN BY: | ARM/AB |
| DRAWN BY: | JRO |
| CHECKED BY: | DKP |
| APPROVED BY: | DLP |
| DATE: | 12/03/2015 |
| JOB No: | 14255-01 |
| FINAL | |
| SHEET | 20 OF 36 SHEETS |

DATE: Tuesday, December 9, 2015 12:17:55 PM
 FILE: K:\LakeInTheHills\1425501_TwpExtension\DrawSheets\Plan\DrawSheets\Plan\LakeInTheHills\LakeInTheHills.dwg
 UPDATE BY: Jim O'Hee
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 REFERENCE: LTH Base Twp A Enc'dwg
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HANGAR APRON AND TRANSIENT APRON NO. 2 - BASE BID

SEE LIGHTING SHEET 1 FOR LEGEND AND NOTES

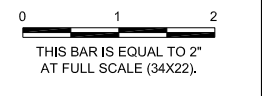


TRANSIENT APRON NO. 2 - ADDITIVE ALTERNATE NO. 1

IL CONTRACT: LK012
 IL LETTING ITEM: 4A
 IL PROJECT: 3CK-4404
 S.B.G. PROJECT: 3-17-SBGP-XX

SURVEY BOOK # BOOK # 1263

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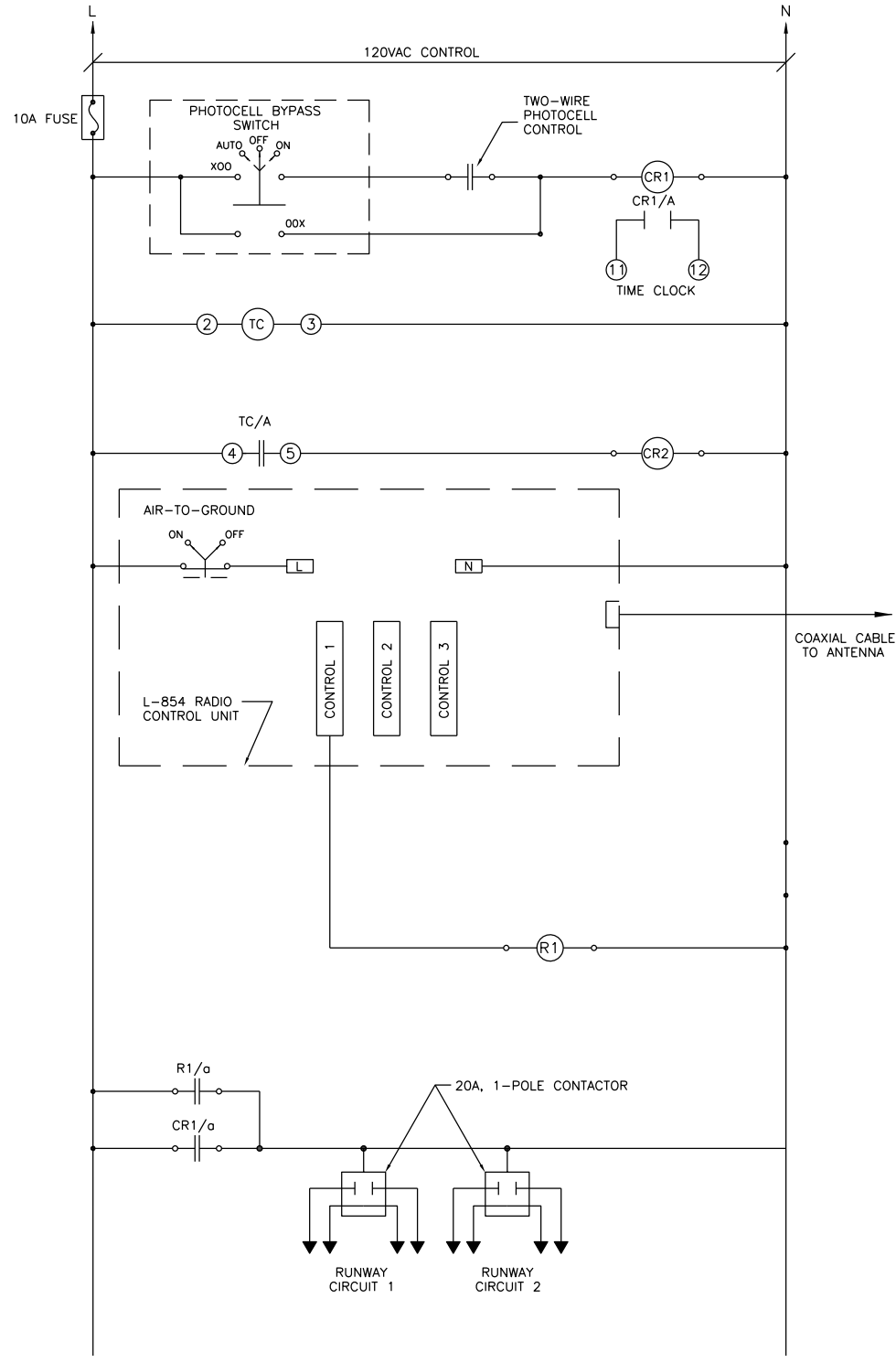
LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA

LIGHTING, ELECTRICAL AND PAVEMENT MARKING PLAN - 2

VILLAGE OF LAKE IN THE HILLS

| | |
|--------------|------------|
| DESIGN BY: | ARM |
| DRAWN BY: | JRO |
| CHECKED BY: | DKP |
| APPROVED BY: | DLP |
| DATE: | 12/03/2015 |
| JOB No: | 14255-01 |

FINAL



RUNWAY CIRCUIT CONTROL WIRING SCHEMATIC
 N.T.S.

- NOTES**
- PHOTOCELL (PC) AT TRANSCLOSURE SUPPLIED WITH TIME CLOCK.
 - TIME CLOCK TO BE GRASSLIN, MODEL PC2-DIGI 30, TWO CHANNEL PHOTO ELECTRIC/TIME SWITCH, OR EQUIVALANT. TIME CLOCK TO OPERATE AT 120VAC.
 - CONTROL RELAYS (CR1 & CR2) TO BE HEAVY DUTY, 10A, 4PDT, P&B #KUP-17A19-120, OR EQUAL WITH SOCKET.
 - PHOTOCELL BYPASS SWITCH TO BE SQUARE D #SKS43BH2, OR EQUIVALENT, WITH PADLOCK ATTACHMENT IN NEMA 4X ENCLOSURE.
 - ALL CONTROL WIRING TO BE #12 THWN UNLESS OTHERWISE NOTED.

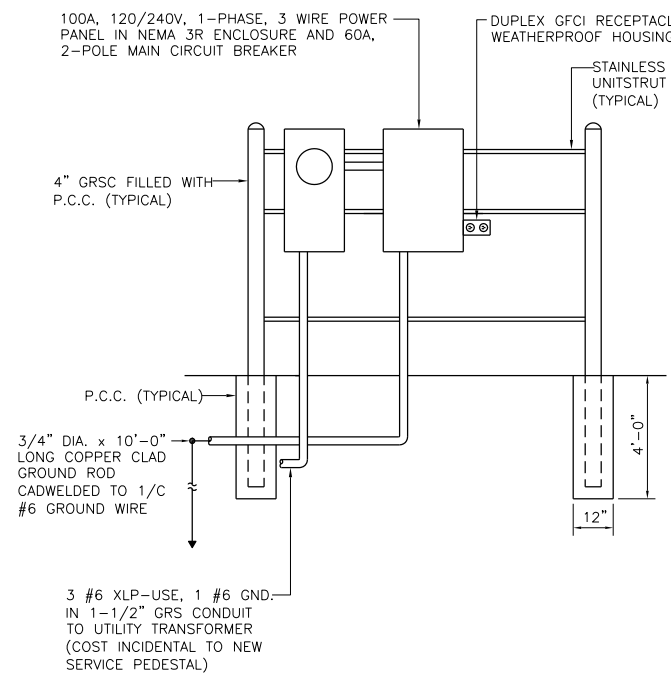
POWER PANEL SCHEDULE

PANEL DESIGNATION: **PP-1** BOND NEUTRAL AND GROUND BAR: **YES** POLE: **20**
 LOCATION: **POWER PEDESTAL** NEUTRAL BUS RATING: **100%** SHORT CIRCUIT RATING: **18KA**
 MFR & TYPE: **SQUARED D OR EQUAL** SERVICE ENTRANCE RATED: **YES** SERIES OR FULLY RATED: **SERIES**
 TVSS & DISCONNECT REQUIRED: **NO**

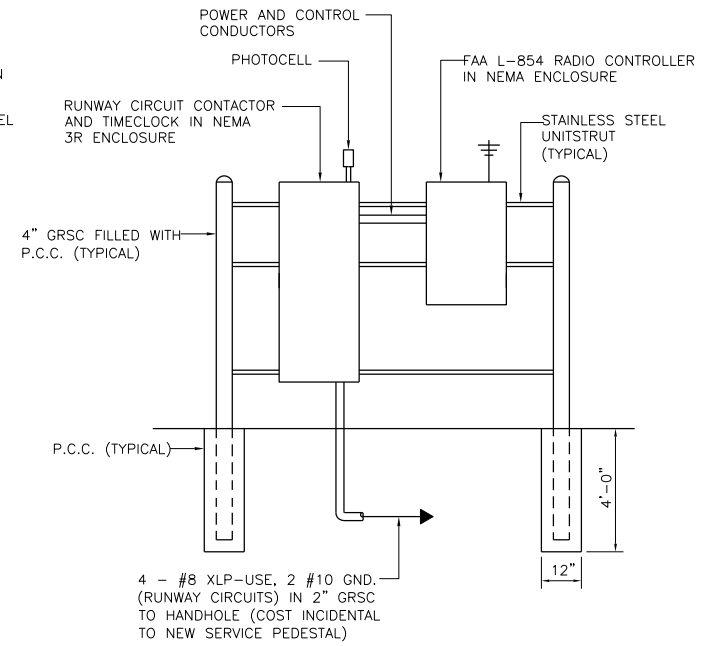
VOLTS: **120/240** MOUNTING: **SURFACE** BUS RATING (AMPS): **100**
 PHASE: **1** ENCL RATING: **NEMA 3R** BUS: **COPPER OR ALUMINUM**
 WIRE: **3** XFMR CAPACITY: MAIN CIRCUIT BREAKER: **60A, 2-POLE**

| CKT NO. | LOAD | BREAKER SIZE | LOAD AMPS | USAGE FACTOR | PHASE AMPS | | POLE NO. | PHASE AMPS | | USAGE FACTOR | LOAD AMPS | BREAKER SIZE | LOAD | CKT NO. |
|---|----------------------------|--------------|-----------|--------------|------------|---|--------------------------|------------|-------------|--------------|--------------------------|--------------|--------------------|---------|
| | | | | | A | B | | A | B | | | | | |
| 1 | L-854 RADIO CONTROLLER | 20/1 | 3 | 0.5 | 1.5 | | 1 | 2 | 0.8 | 0.4 | 2 | 20/1 | CONVENIENCE OUTLET | 2 |
| 3 | RUNWAY LIGHTING CONTROLLER | 20/1 | 1 | 1 | | 1 | 3 | 4 | | 0.5 | 18 | 20/1 | RUNWAY CIRCUIT 1 | 4 |
| 5 | SPARE 20 A CB | 20/1 | 1 | 1 | | 1 | 5 | 6 | | 0.5 | 18 | 20/1 | RUNWAY CIRCUIT 2 | 6 |
| 7 | SPARE 20 A CB | 20/1 | 1 | 1 | | 1 | 7 | 8 | | 0.4 | 1 | 20/1 | SPARE 20 A CB | 8 |
| 9 | SPARE 20 A CB | 20/1 | 0 | 1 | 0 | | 9 | 10 | 0 | 1 | 0 | 20/1 | SPARE 20 A CB | 10 |
| 11 | SPARE 20 A CB | 20/1 | 0 | 1 | 0 | | 11 | 12 | 0 | 1 | 0 | 20/1 | SPARE 20 A CB | 12 |
| 13 | | | | | 0 | | 13 | 14 | 0 | | | | | 14 |
| 15 | | | | | 0 | | 15 | 16 | 0 | | | | | 16 |
| 17 | | | | | 0 | | 17 | 18 | 0 | | | | | 18 |
| 19 | | | | | 0 | | 19 | 20 | 0 | | | | | 20 |
| SECTION TOTAL: | | | | | 2.5 | 2 | | | 9.8 | 9.4 | | | | |
| MINIMUM MAIN CIRCUIT BREAKER AMPS: | | | | | 12 | | PHASE TOTAL AMPS: | | 12.3 | 11.4 | TOTAL USAGE LOAD: | | 2844 VA | |
| | | | | | | | PHASE TOTAL VA: | | 1476 | 1368 | MIN. XFMR VA: | | 3555 VA | |

NOTES:



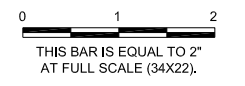
NEW ELECTRIC SERVICE PEDESTAL DETAIL (FRONT)
 NOT TO SCALE



NEW ELECTRIC SERVICE PEDESTAL DETAIL (BACK)
 NOT TO SCALE

SURVEY BOOK # BOOK # 1263

| REVISIONS | | |
|-----------|----|------|
| NUMBER | BY | DATE |
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**LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA**

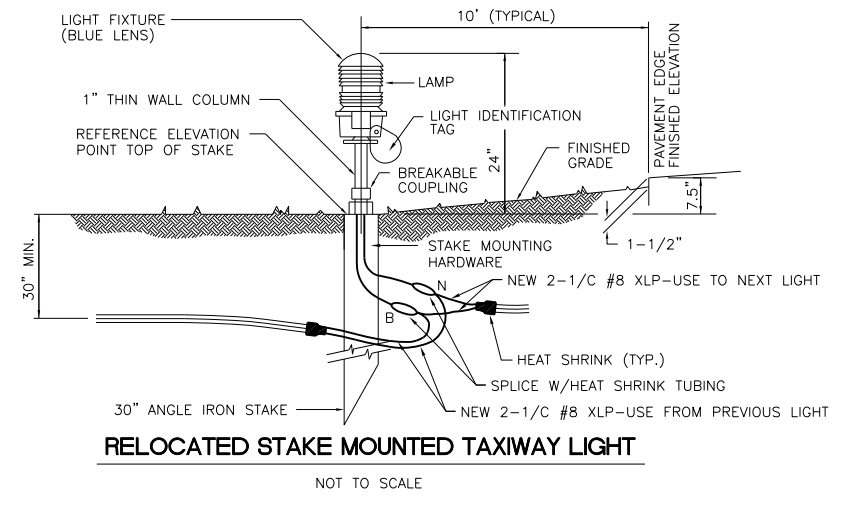
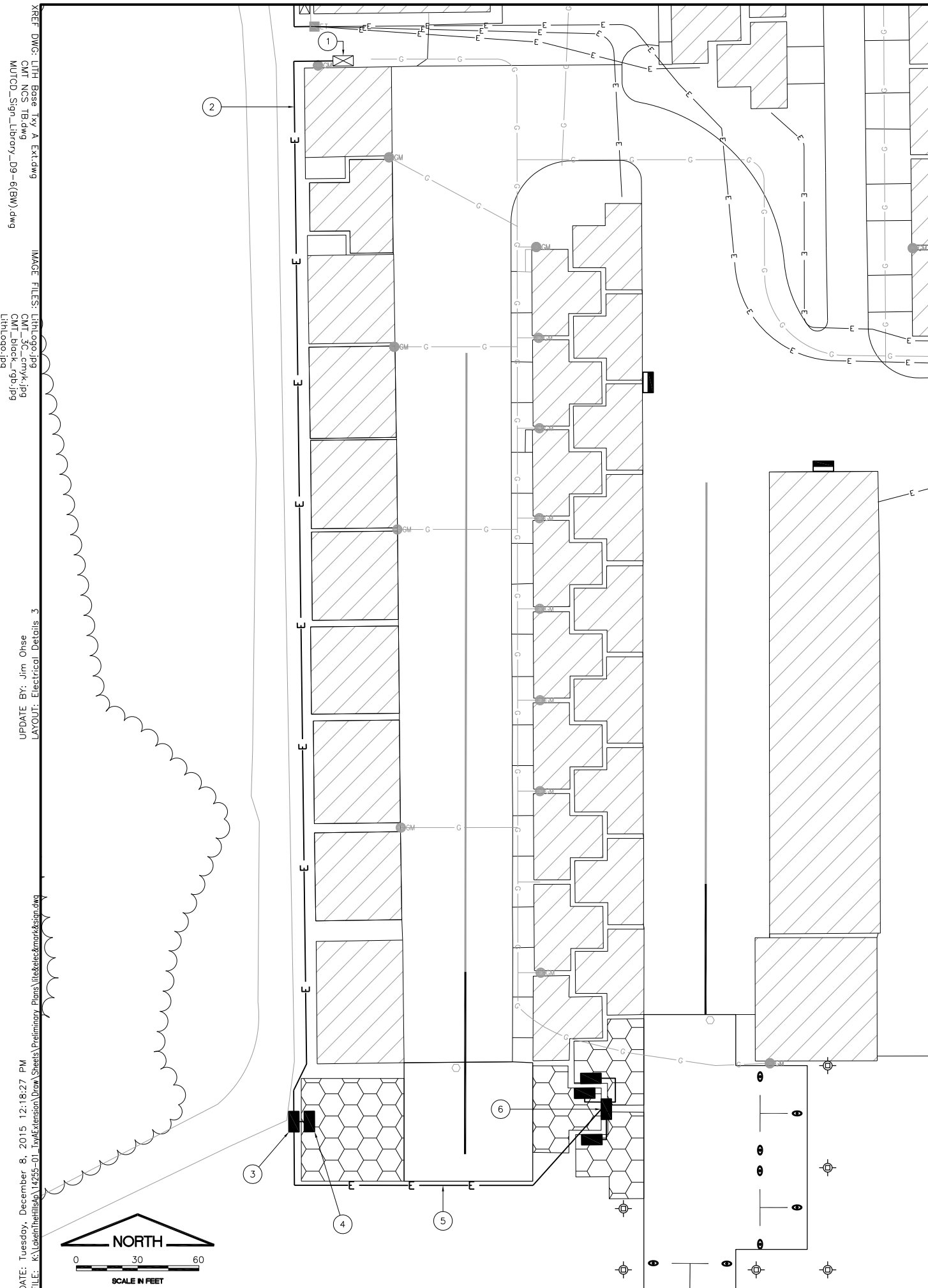
ELECTRICAL DETAILS 2

CMT
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VILLAGE OF
 LAKE IN THE HILLS

DESIGN BY: TMS
 DRAWN BY: JRO
 CHECKED BY: DKP
 APPROVED BY: DLP
 DATE: 12/03/2015
 JOB No: 14255-01

FINAL

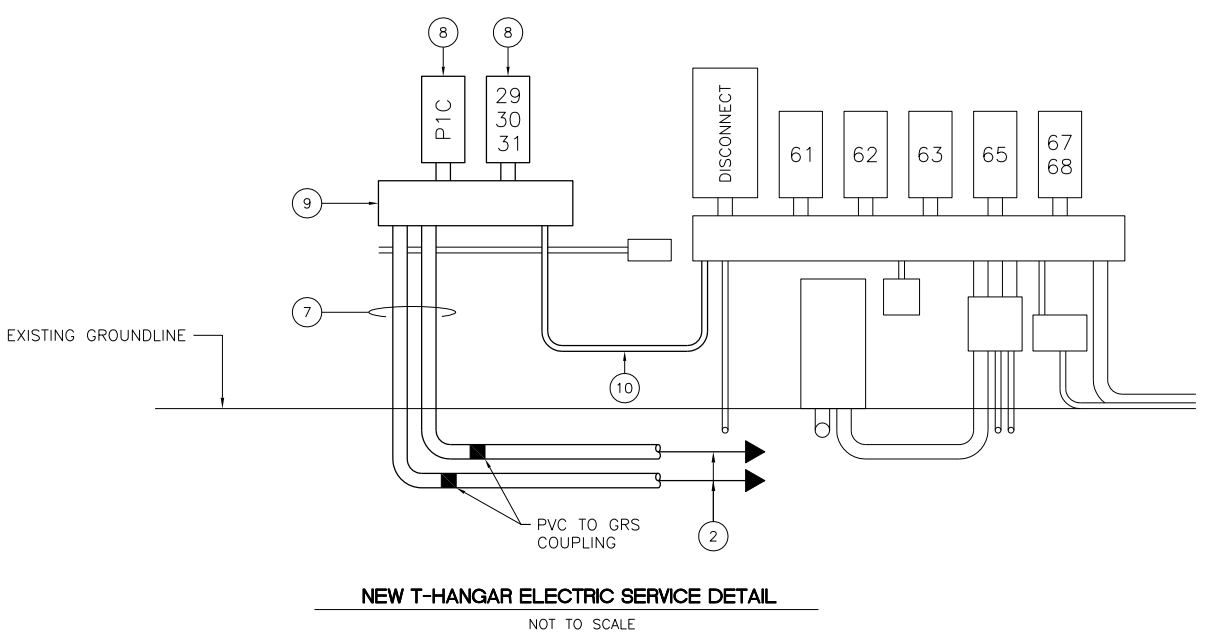


NOTES:

1. THE COST OF ALL DISCONNECTS, CABLE, CONDUIT AND JUNCTION BOXES SHOWN ON THIS SHEET SHALL BE INCIDENTAL TO PAY ITEM "AR800064 ELECTRIC SERVICE - T-HANGARS".
2. ALL ABOVE GROUND CONDUITS SHALL BE GRS CONDUITS. INSTALL PVC-GRS COUPLINGS FOR TRANSITION FROM PVC TO GRSC.

KEYED NOTES:

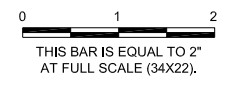
1. EXISTING ELECTRIC SERVICE WITH DISCONNECT. INSTALL NEW (2) 60A, 2-POLE, NEMA 3K DISCONNECTS AND WIREWAY. SEE "NEW T-HANGAR ELECTRIC SERVICE DETAIL" THIS SHEET.
2. NEW (2) 2" PVC SCHEDULE 80, DIRECT BURIED WITH 3 #6 XLP-USE, 1 #8 GND. IN EACH CONDUIT.
3. NEW 18" x 18" x 6" NEMA 3R JUNCTION BOX, ATTACHED HANGAR FOR PULL BOX.
4. RELOCATED POWER PANEL. INSTALL CONDUIT/CONDUCTORS TO FEED PANEL.
5. NEW 2" PVC SCHEDULE 80 CONDUIT, DIRECT BURIED WITH 3 #6 XLP-USE, 1 #8 GND.
6. NEW 12" x 12" x 6" NEMA 3R JUNCTION BOX ABOVE GRADE. INSTALL CONDUIT AND CONDUCTORS TO FEED RELOCATED HANGARS.
7. NEW (2) 2" GRS CONDUITS
8. NEW 60A, 2-POLE, 240V NEMA 3R DISCONNECT FOR NEW ELECTRIC SERVICES TO HANGARS.
9. NEW 6" x 6" WIREWAY.
10. NEW 2" GRS CONDUIT WITH 6 #6 XLP-USE, 2 #8 GND.



IL. CONTRACT: **LK012**
 IL. LETTING ITEM: **4A**
 IL. PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # BOOK # 1263

| REVISIONS | | |
|-----------|----|------|
| NUMBER | BY | DATE |
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**LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA**

ELECTRICAL DETAILS 3



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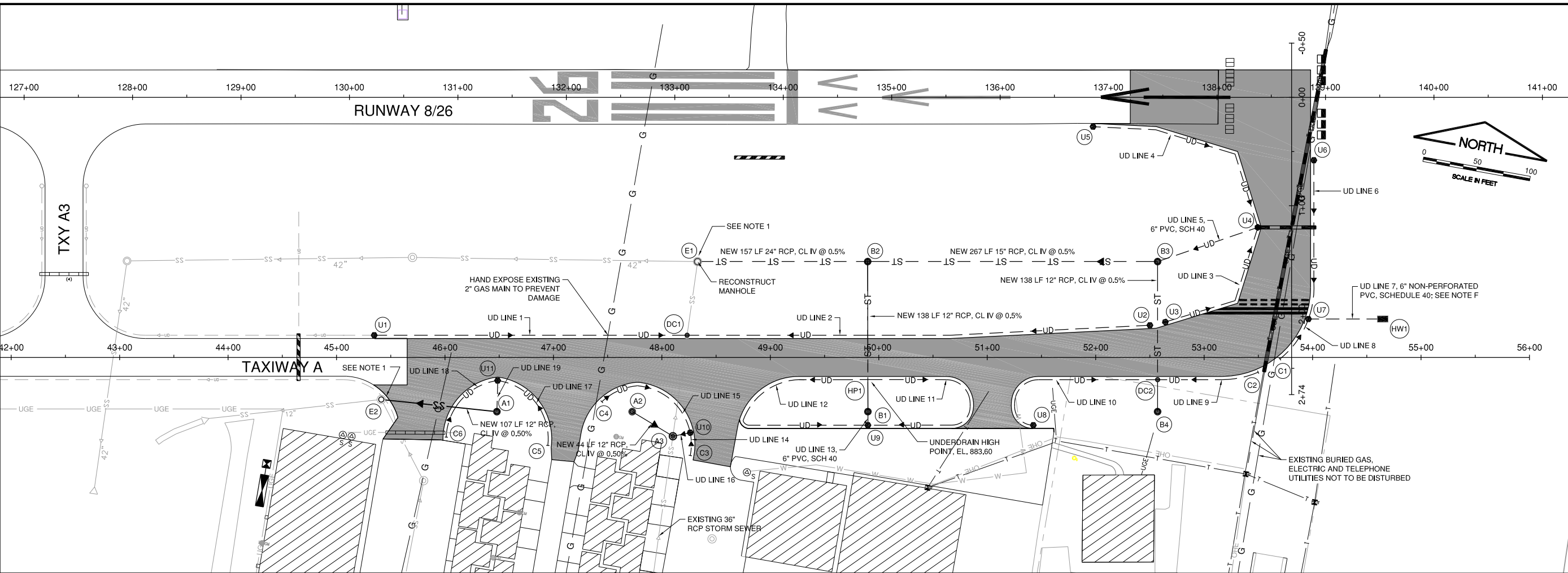
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| DRAWN BY: | JRO |
| CHECKED BY: | DKP |
| APPROVED BY: | DLP |
| DATE: | 12/03/2015 |
| JOB No: | 14255-01 |

FINAL

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 CMT NOS: B.dwg
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 LAYOUT: Storm Sewer Profiles
 REF: DWG: LTH Base Txy A Extension
 CMT: LMS: Revise
 IMAGE FILES: CMT: 3C: com\k4\p
 CMT: Lake_Txy\p
 Ed\c\p\cmt



IL CONTRACT: **LK012**
 IL LETTING ITEM: **4A**
 IL PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

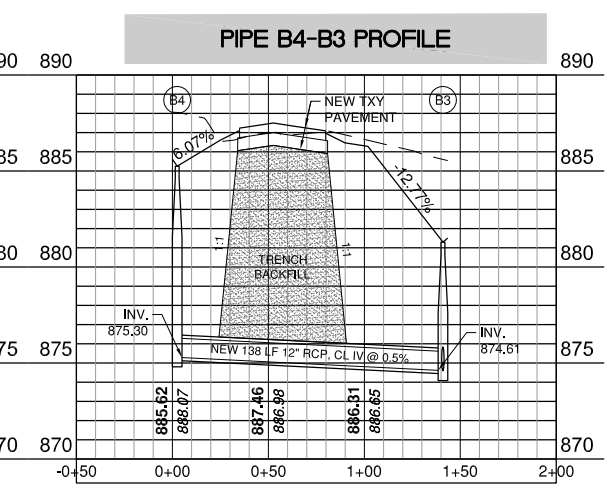
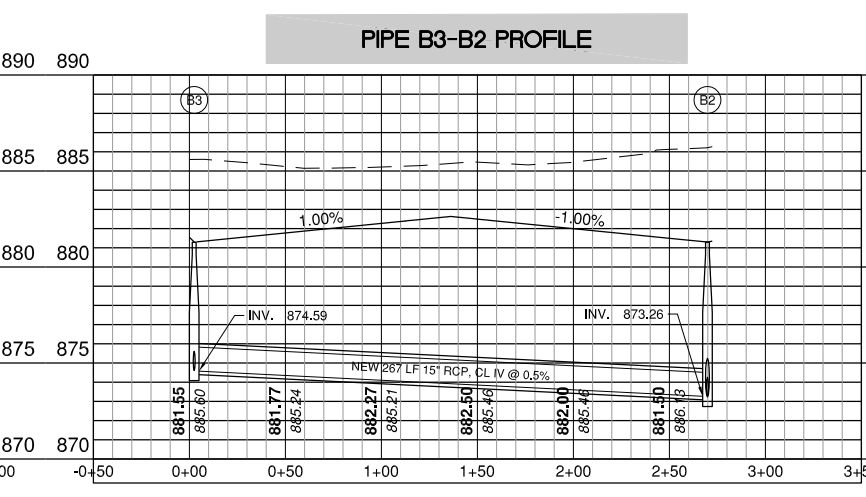
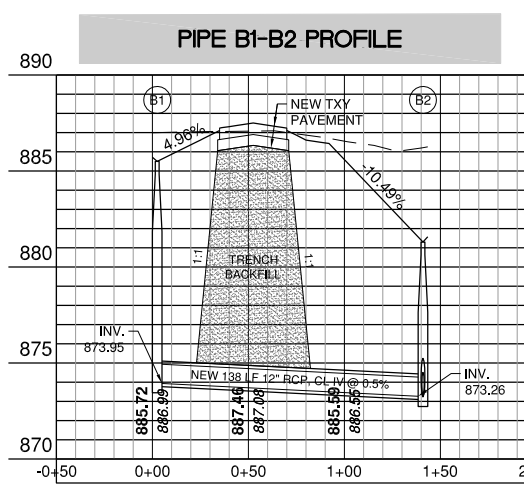
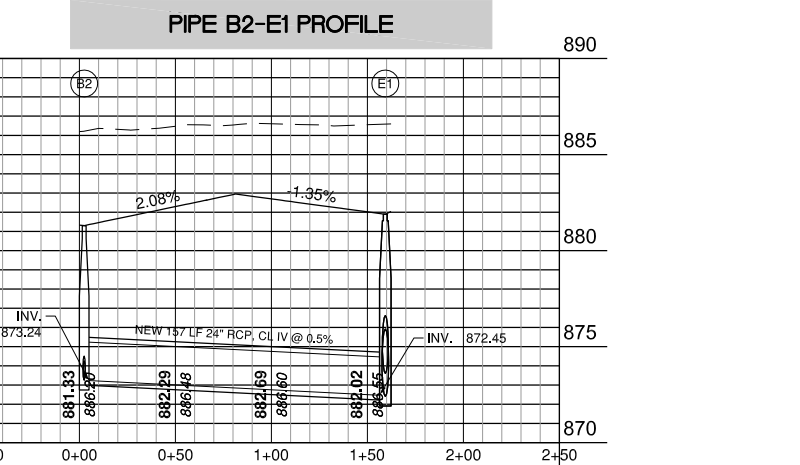
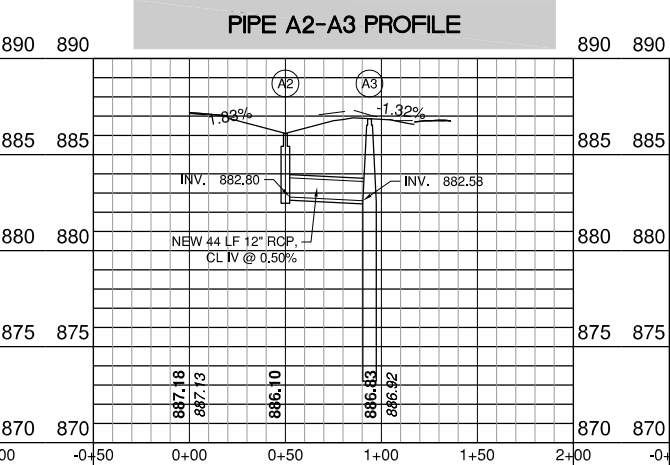
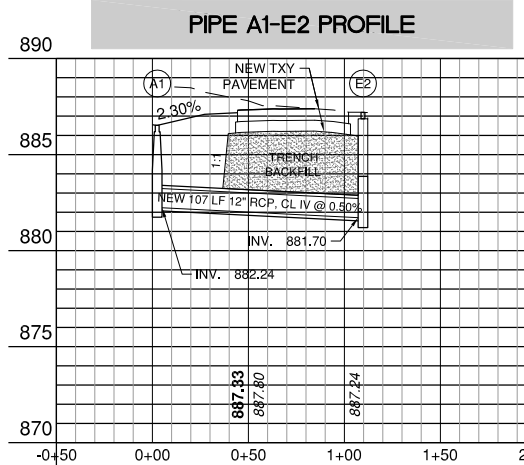
SURVEY BOOK # BOOK # 1263

| REVISIONS | | |
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| NUMBER | BY | DATE |
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0 1 2
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

**LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA**

DRAINAGE PLAN AND STORM SEWER PROFILES 1



LEGEND

- ← SS → EXISTING STORM SEWER
- ⊙ EXISTING DRAINAGE STRUCTURE
- X EXISTING FENCE
- ▨ NEW PAVEMENT
- ▨ EXISTING BUILDING
- ← SS → NEW STORM SEWER
- ⊙ A1 EXISTING DRAINAGE STRUCTURE
- ⊙ U1 NEW UNDERDRAIN COLLECTION STRUCTURE OR CLEANOUT - SEE SCHEDULE
- ⊙ DC1 UNDERDRAIN DIRECT CONNECTION TO STORM SEWER PIPE
- — — NEW 6" PERFORATED UNDERDRAIN

STORM SEWER NOTES:

- CONTRACTOR SHALL CORE INTO EXISTING MANHOLE. COST OF CORING INTO MANHOLE SHALL BE INCLUDED IN THE COST OF NEW STORM SEWER. EXISTING BENCH IN BOTTOM OF STRUCTURE TO BE REMOVED AND REPLACED, COST INCLUDED IN NEW STORM SEWER PIPE.
- NEW STRUCTURE A3 SHALL BE INSTALLED ON EXISTING 36" RCP STORM SEWER. COST OF PIPE REMOVAL, CONCRETE COLLARS AND OTHER INCIDENTALS REQUIRED TO CONNECT THE EXISTING AND NEW PIPE TO THE NEW STRUCTURE SHALL BE INCLUDED IN THE COST OF THE MANHOLE.
- SEE STORM SEWER SCHEDULE ON DRAINAGE SCHEDULES AND DETAILS SHEET.

UNDERDRAIN NOTES:

- CONTRACTOR SHALL FIELD VERIFY UNDERDRAIN INSPECTION HOLES INVERTS BEFORE INSTALLING UNDERDRAIN.
- ALL UNDERDRAIN CONNECTIONS, TEES, BENDS, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE UNDERDRAIN.
- UNDERDRAIN CONFLICTS WITH THE EXISTING CONDITIONS SHALL BE RESOLVED AND SHALL BE INCIDENTAL TO THE COST OF THE UNDERDRAIN.
- UNDERDRAIN SLOPES FOLLOW EDGE OF PAVEMENT SLOPES UNLESS NOTED OTHERWISE.
- INSTALL PROPOSED ELECTRICAL DUCTS/CONDUITS TO BE CLEAR OF UNDERDRAIN, COST INCIDENTAL.
- 6" PERFORATED AND 6" NON-PERFORATED PVC SCHEDULE 40 OUTLET PIPE SHALL BE PAID UNDER ITEM AR705506, 6" PERFORATED UNDERDRAIN.
- SEE UNDERDRAIN STRUCTURE SCHEDULE AND UNDERDRAIN PIPE SCHEDULE ON DRAINAGE SCHEDULES AND DETAILS SHEET.

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 VILLAGE OF LAKE IN THE HILLS

DESIGN BY: TMS
 DRAWN BY: JRO
 CHECKED BY: DKP
 APPROVED BY: DLP
 DATE: 12/03/2015
 JOB No: 14255-01

FINAL

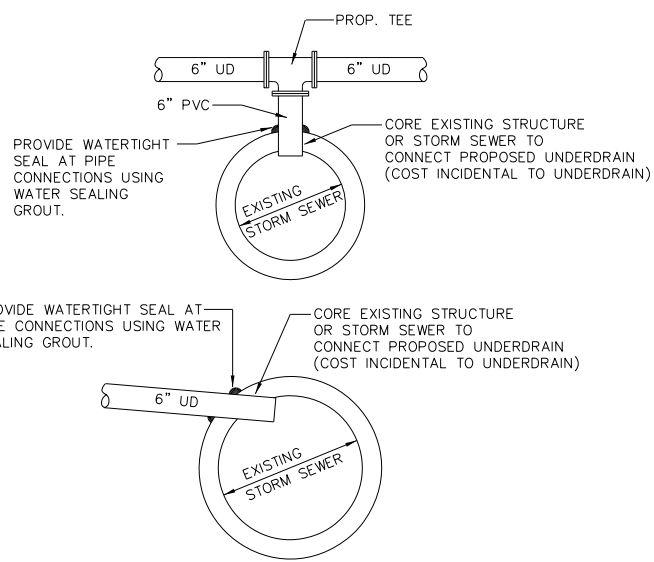
SHEET 26 OF 36 SHEETS

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 LAYOUT: Storm Sewer Details
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| STORM SEWER STRUCTURE SCHEDULE | | | | |
|--------------------------------|--------------------|--------|--|--|
| STRUCTURE NUMBER | LOCATION | RIM | INVERT | NOTES |
| A1 | STA. 46+48, 50' RT | 886.51 | 6" PVC INV. N (IN) 883.00 12" RCP INV. W (OUT) 882.24 | NEW 4' MANHOLE, TYPE 1 FRAME AND OPEN LID |
| A2 | STA. 47+73, 50' RT | 886.00 | 12" RCP INV. E (OUT) 882.80 | NEW 4' MANHOLE, TYPE 1 FRAME AND OPEN LID |
| A3 | STA. 48+10, 73' RT | 886.37 | 6" PVC INV. E (IN) 882.50 12" RCP INV. W (IN) 882.58 EX. 36" RCP INV. S (IN) 873.70± EX. 36" RCP INV. N (OUT) 873.70± | NEW 6' MANHOLE, TYPE 1 FRAME AND CLOSED LID SET NEW STRUCTURE ON EXISTING 36" RCP |
| B1 | STA. 49+90, 50' RT | 885.50 | 6" PVC INV. S (IN) 881.50 12" RCP INV. N (OUT) 873.95 | NEW 4' MANHOLE, TYPE 1 FRAME AND OPEN LID |
| B2 | STA. 49+90, 88' LT | 881.30 | 12" RCP INV. S (IN) 873.26 15" RCP INV. E (IN) 873.26 24" RCP INV. W (OUT) 873.24 | NEW 4' MANHOLE, TYPE 1 FRAME AND OPEN LID |
| B3 | STA. 52+57, 88' LT | 881.30 | 6" PVC INV. E (IN) 877.74 12" RCP INV. S (IN) 874.61 15" RCP INV. W (OUT) 874.59 | NEW 4' MANHOLE, TYPE 1 FRAME AND OPEN LID |
| B4 | STA. 52+57, 50' RT | 885.25 | 12" INV. N (OUT) 875.30 | NEW 4' MANHOLE, TYPE 1 FRAME AND OPEN LID |
| E1 | STA. 48+33, 88' LT | 886.21 | 24" INV. E (IN) 872.45 EX. 36" INV. S (IN) 873.61 EX. 42" INV. W (OUT) 872.41 | RECONSTRUCT EXISTING 8' MANHOLE NEW RIM = 881.89 WITH NEW TYPE 1 FRAME AND OPEN LID |
| E2 | STA. 45+41, 39' RT | 885.75 | 12" INV. E (IN) 881.70 EX. 18" INV. S (IN) 882.75 EX. 12" INV. W (OUT) 881.45 | RECONSTRUCT EXISTING 4' MANHOLE NEW RIM = 886.90 WITH NEW TYPE 1 FRAME AND OPEN LID |

| UNDERDRAIN STRUCTURE SCHEDULE | | | | |
|-------------------------------|-----------------------|-----------|--|---------------------------------------|
| STRUCTURE NUMBER | STATION/OFFSET | RIM ELEV. | INV. ELEV. | NOTES |
| U1 | STA. 45+35, 19.5' LT | 886.50 | 884.70 (W) 883.00 (E) | COLLECTION STRUCTURE |
| U2 | STA. 52+35, 28.7' LT | 886.95 | 883.50 | TYPE 1 CLEANOUT |
| U3 | STA. 52+64, 32' LT | 886.95 | 883.50 | TYPE 1 CLEANOUT |
| U4 | STA. 53+51, 120' LT | 886.20 | 880.88 (N) 882.81 (S) 880.50 (W) | COLLECTION STRUCTURE |
| U5 | STA. 51+98, 214.5' LT | 885.20 | 881.70 | TYPE 1 CLEANOUT |
| U6 | STA. 54+01, 182' LT | 886.55 | 883.05 | TYPE 1 CLEANOUT |
| U7 | STA. 53+95, 36' LT | 886.70 | 882.73 (N) 882.68 (S) 882.88 (E) | COLLECTION STRUCTURE |
| U8 | STA. 51-42, 64' RT | 887.15 | 883.65 | TYPE 1 CLEANOUT |
| U9 | STA. 49-90, 64' RT | 886.70 | 882.00 (W) 882.00 (E) 881.90 (N) | COLLECTION STRUCTURE |
| U10 | STA. 48-26, 69' RT | 886.60 | 883.10 (N) 883.10 (S) 883.00 (W) | COLLECTION STRUCTURE |
| U11 | STA. 46+49, 19.5' RT | 887.10 | 883.70 (W) 883.70 (E) 883.80 (S) | COLLECTION STRUCTURE |
| HP1 | STA. 49+90, 19.5' RT | | 883.60 | HIGH POINT |
| C1 | STA. 53+70, 1' RT | | 883.00 | END CAP |
| C2 | STA. 53-50, 12' RT | | 883.00 | END CAP |
| C3 | STA. 48-29, 92' RT | | 883.20 | END CAP |
| C4 | STA. 47-43, 40' RT | | 883.63 | END CAP |
| C5 | STA. 46-96, 81' RT | | 884.10 | END CAP |
| C6 | STA. 46-00, 73' RT | | 884.10 | END CAP |
| HW1 | STA. 54+70, 36' LT | | 882.00 | UNDERDRAIN HEADWALL |
| DC1 | STA. 48+23, 19.5' LT | | 881.55 | DIRECT CONNECTION TO STORM SEWER PIPE |
| DC2 | STA. 52+57, 19.5' RT | | 881.55 | DIRECT CONNECTION TO STORM SEWER PIPE |

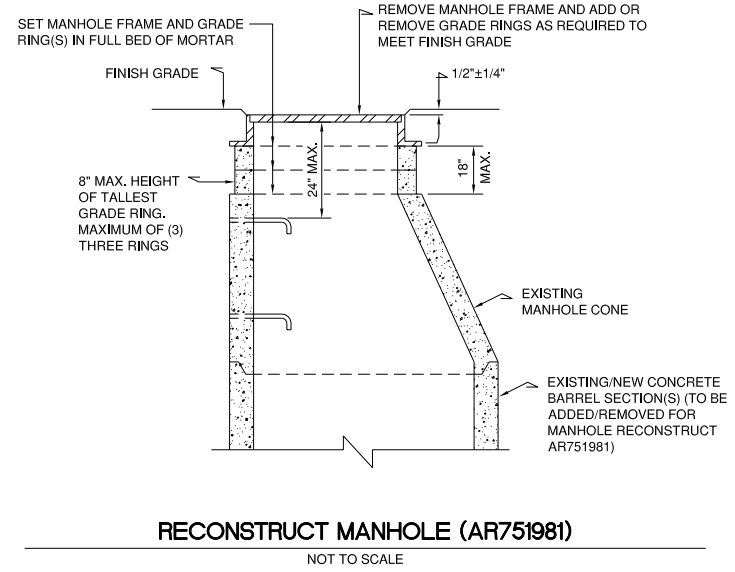
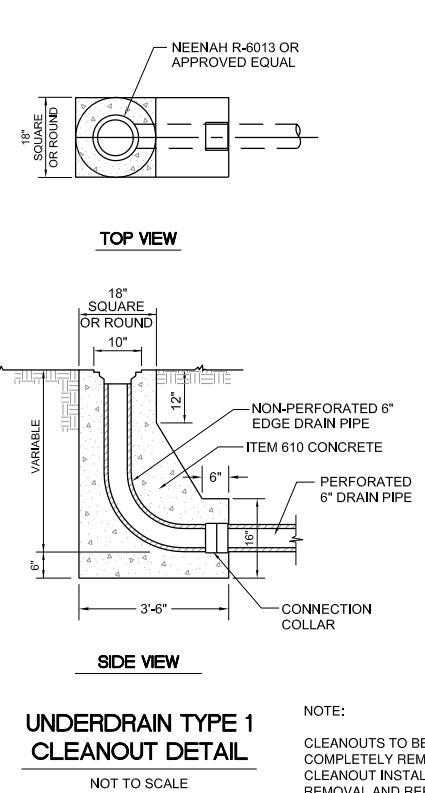
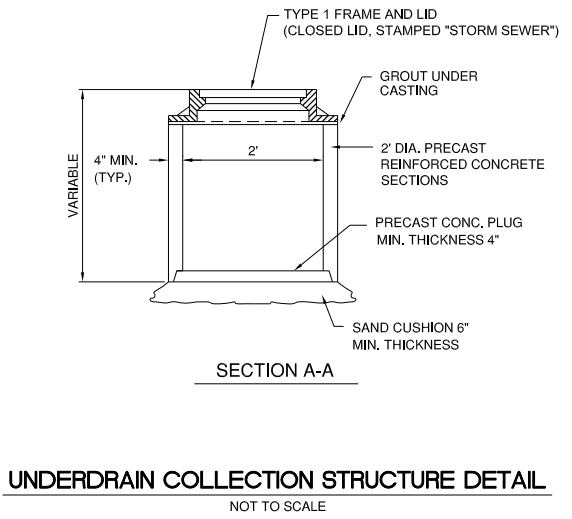
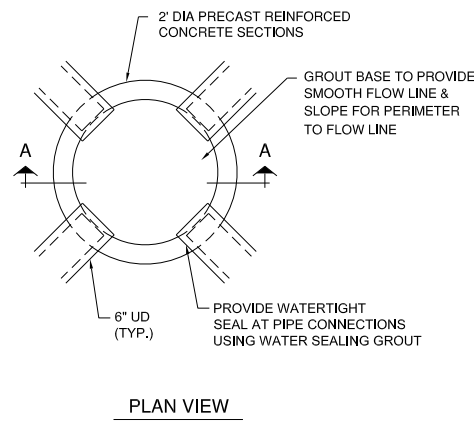
| UNDERDRAIN PIPE SCHEDULE | | | | | | |
|--------------------------|--------------------|----------------------|-----------------|-------------------|-------------|------------|
| UD LINE | UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | UPSTREAM INVERT | DOWNSTREAM INVERT | PIPE LENGTH | PIPE SLOPE |
| 1 | U1 | DC1 | 883.00 | 881.55 | 289 | 0.50% |
| 2 | U2 | DC1 | 883.50 | 881.55 | 427 | 0.46% |
| 3 | U3 | U4 | 883.50 | 882.81 | 138 | 0.50% |
| 4 | U5 | U4 | 881.70 | 880.68 | 205 | 0.50% |
| 5 | U4 | B3 | 880.50 | 877.74 | 92 | 3.00% |
| 6 | U6 | U7 | 883.05 | 882.73 | 147 | 0.22% |
| 7 | U7 | HW1 | 882.68 | 882.00 | 74 | 0.92% |
| 8 | C1 | U7 | 883.00 | 882.68 | 46 | 0.70% |
| 9 | C2 | DC2 | 883.00 | 882.53 | 94 | 0.50% |
| 10 | U8 | DC2 | 883.65 | 882.53 | 173 | 0.65% |
| 11 | HP1 | U9 | 883.60 | 882.00 | 214 | 0.75% |
| 12 | HP1 | U9 | 883.60 | 882.00 | 250 | 0.64% |
| 13 | U9 | B1 | 881.90 | 881.50 | 12 | 3.33% |
| 14 | C3 | U10 | 883.20 | 883.10 | 21 | 0.48% |
| 15 | C4 | U10 | 883.63 | 883.10 | 107 | 0.50% |
| 16 | U10 | A3 | 883.00 | 882.50 | 16 | 3.13% |
| 17 | C5 | U11 | 884.10 | 883.70 | 84 | 0.48% |
| 18 | C6 | U11 | 884.10 | 883.70 | 77 | 0.52% |
| 19 | U11 | A1 | 883.60 | 883.00 | 28 | 2.14% |



UNDERDRAIN CONNECTIONS AND FITTINGS, TEES AND ELBOWS USED FOR CONNECTIONS TO PROPOSED STRUCTURES AND STORM SEWERS / EXISTING STRUCTURES AND STORM SEWERS, SHALL BE CONSIDERED INCIDENTAL TO THE PROPOSED UNDERDRAIN.

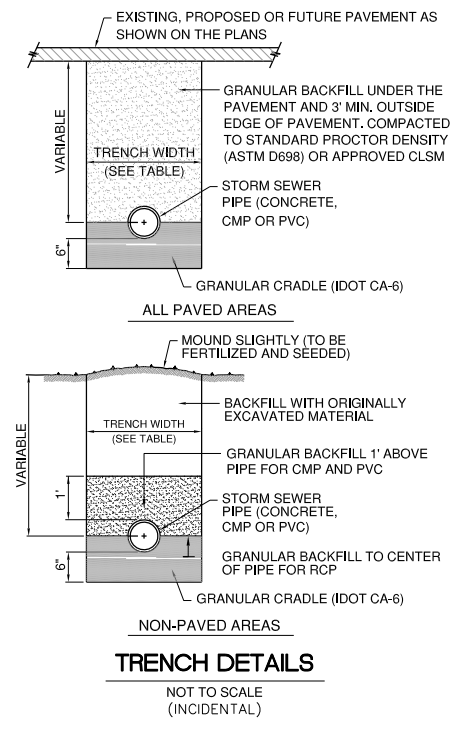
UNDERDRAIN CONNECTION DETAILS

NOT TO SCALE



- NOTES**
- REFER TO ASTM DESIGNATION C-478 FOR DESIGN AND STRENGTH REQUIREMENTS.
 - WHEN AN ADJUSTMENT OF GREATER THAN 18" IN GRADE RINGS IS REQUIRED, THE MANHOLE SHALL BE RECONSTRUCTED WITH APPROVED PRE-CAST CONC. BARREL SECTIONS THE SAME SIZE AS MANHOLE DIA. AND PAID FOR AS MANHOLE RECONSTRUCT (AR751981).
 - ADJUSTING RINGS SHALL BE PRE-CAST REINFORCED CONCRETE. ALL ADJUSTING RINGS AND METAL FRAME SHALL BE MORTARED INTO PLACE WITHOUT THE USE OF SHIMS OF ANY TYPE.
 - MORTAR SHALL HARDEN FOR 72 HOURS PRIOR TO PLACING GRAVEL OR ASPHALT DIRECTLY AROUND ADJUSTED STRUCTURE.
 - THE MAXIMUM HEIGHT OF ANY SINGLE ADJUSTING RING(S) SHALL BE 8 INCHES INCLUDING EXISTING RINGS.
 - THE MAXIMUM NUMBER OF RINGS IN ANY STRUCTURE IS THREE. THIS MAY REQUIRE THE CONTRACTOR TO REMOVE EXISTING RINGS AND REPLACE WITH DIFFERENT SIZE RINGS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD CHECKING EXISTING MANHOLE CONFIGURATIONS AND SIZES FOR THE NECESSARY ADJUSTMENT AND RECONSTRUCT.

| INSIDE DIAMETER OF STORM SEWER (INCHES) | MAXIMUM TRENCH WIDTH | MAXIMUM PAVEMENT REMOVAL WIDTH |
|---|----------------------|--------------------------------|
| 6 | 3'-7" | 5'-7" |
| 8 | 3'-9" | 5'-9" |
| 12 | 4'-2" | 6'-2" |
| 15 | 4'-6" | 6'-6" |
| 18 | 4'-9" | 6'-9" |
| 21 | 5'-0" | 7'-0" |
| 24 | 5'-4" | 7'-4" |
| 27 | 5'-7" | 7'-7" |
| 30 | 5'-11" | 7'-11" |
| 36 | 6'-6" | 8'-6" |
| 42 | 7'-1" | 9'-1" |
| 48 | 7'-8" | 9'-8" |
| 54 | 8'-3" | 10'-3" |
| 60 | 8'-10" | 10'-10" |
| 66 | 9'-5" | 11'-5" |
| 72 | 10'-0" | 12'-0" |
| 78 | 10'-7" | 12'-7" |
| 84 | 11'-2" | 13'-2" |
| 90 | 11'-9" | 13'-9" |
| 96 | 12'-4" | 14'-4" |
| 102 | 12'-11" | 14'-11" |
| 108 | 13'-6" | 15'-6" |



IL. CONTRACT: **LK012**
 IL. LETTING ITEM: **4A**
 IL. PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # **BOOK # 1263**

| REVISIONS | | |
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| NUMBER | BY | DATE |
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0 1 2
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

LAKE IN THE HILLS AIRPORT
LAKE IN THE HILLS, ILLINOIS
IMPROVE RUNWAY 8/26 SAFETY AREA
DRAINAGE SCHEDULES AND DETAILS

CMT
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VILLAGE OF LAKE IN THE HILLS

DESIGN BY: TMS
 DRAWN BY: JRO
 CHECKED BY: DKP
 APPROVED BY: DLP
 DATE: 12/03/2015
 JOB No: 14255-01

FINAL

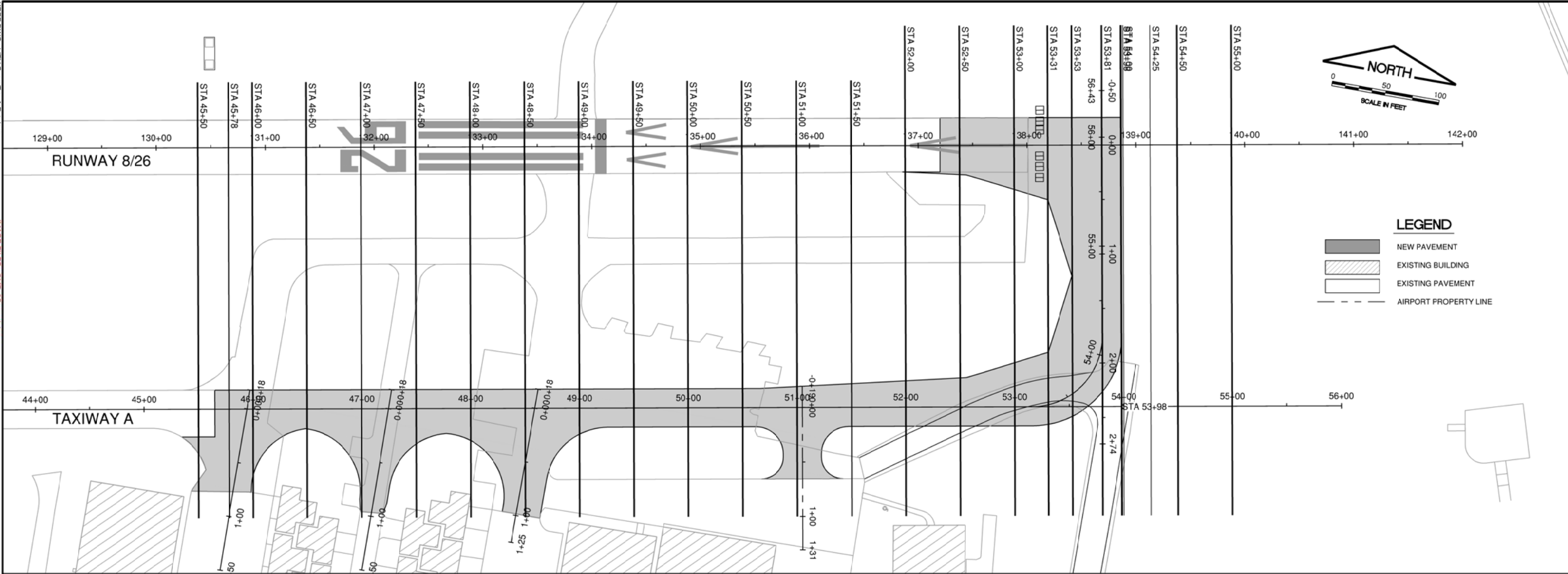
SHEET 27 OF 36 SHEETS

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UPDATE BY: Jim Ohse
LAYOUT: XSEC Index

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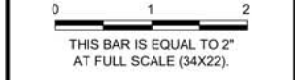
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IL CONTRACT: **LK012**
 IL LETTING ITEM: **4A**
 IL PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # **BOOK # 1263**

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**LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA**

**INDEX TO CROSS SECTIONS
 AND
 EARTHWORK SUMMARY AND NOTES**

EARTHWORK NOTES

- TAXIWAY A AND RUNWAY 8/26 EARTHWORK IS SHOWN ON CROSS SECTIONS PLAN SHEETS 1 THROUGH 4.
- TRANSIENT APRON AND BUILDING PAD EARTHWORK IS SHOWN ON GRADING PLAN SHEET. EMBANKMENT FILL UNDER THE BUILDING PADS SHALL BE COMPACTED TO 98% STANDARD PROCTOR. CONTRACTOR SHALL CONSTRUCT ALL EARTHWORK FOR THE TRANSIENT APRON, INCLUDING THE ADDITIVE ALTERNATE NO. 1 UNDER BASE BID. THIS WORK SHALL ALSO INCLUDE TOPSOIL PLACEMENT ON THE ADDITIVE ALTERNATE NO. 1 PAVEMENT AREAS AND CUT ALONG THE SHOULDERS AROUND THE PAVEMENT PERIMETER TO PROVIDE ADEQUATE DRAINAGE UNDER BASE BID.
- RUNWAY 8 DISPLACED THRESHOLD PAVEMENT TO BE REMOVED SHALL BE REPLACED WITH EMBANKMENT FILL AND 4" TOPSOIL PLACEMENT. NEW GRADES SHALL MATCH PRIOR EXISTING GRADES OR AS DIRECTED BY THE RESIDENT ENGINEER TO PROVIDE ADEQUATE DRAINAGE. THE EXISTING AGGREGATE BASE COURSE SHALL BE REMOVED AND PAID FOR AS UNCLASSIFIED EXCAVATION AND FILLED BACK IN WITH EMBANKMENT FILL COMPACTED TO 90% STANDARD PROCTOR.
- THE AUTO PARKING LOT AND ROADWAY NORTH OF RUNWAY 8/26 PAVEMENT SHALL BE REPLACED WITH SHOULDER FILL AND 4" TOPSOIL PLACEMENT. NEW GRADES SHALL MATCH PRIOR EXISTING GRADES OR AS DIRECTED BY THE RESIDENT ENGINEER TO PROVIDE ADEQUATE DRAINAGE. THE EXISTING AGGREGATE BASE COURSE SHALL BE REMOVED AND PAID FOR AS UNCLASSIFIED EXCAVATION.
- THIS WORK INCLUDES REMOVING UNSUITABLE MATERIAL (UNCLASSIFIED EXCAVATION) AS THE FIELD CONDITIONS WARRANT AT THE TIME OF CONSTRUCTION. IF REQUIRED THE LOCATIONS WILL BE DETERMINED IN THE FIELD. THE QUANTITY OF UNSUITABLE MATERIAL SHALL NOT BE USED AS EMBANKMENT FILL MATERIAL UNLESS AUTHORIZED BY THE RESIDENT ENGINEER.
- EXCESS MATERIAL SUITABLE FOR EMBANKMENT UNDER FUTURE PAVEMENT SHALL BE PLACED AT AN AREA NEAR THE FUEL FARM OR AS DIRECTED BY THE RESIDENT ENGINEER. BEFORE PLACING ANY EMBANKMENT FILL, THE EXISTING TOPSOIL SHALL BE STRIPPED AND PAID FOR UNDER UNCLASSIFIED EXCAVATION. EMBANKMENT MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS, PER SPECIFICATION ITEM 152. TO 5% STANDARD PROCTOR. UPON COMPLETION OF EMBANKMENT FILL PLACEMENT, THE CONTRACTOR SHALL PLACE THE EXCAVATED TOPSOIL AS TOPSOIL PLACEMENT AND GRADE THE SITE TO DRAIN. THE MAXIMUM HEIGHT OF THE STOCKPILE SHALL BE 1' LESS THAN ADJACENT FUEL FARM PAVEMENT GRADES. THE RESIDENT ENGINEER SHALL PROVIDE A GRADING PLAN FOR THE CONTRACTOR'S USE.
- EXCESS TOPSOIL SHALL BE STOCKPILED NEAR THE NEW TRANSIENT APRON OR AS DIRECTED BY THE OWNER IN COORDINATION WITH THE RESIDENT ENGINEER. THE STOCKPILE SHALL BE GRADED TO DRAIN WITH MAXIMUM SIDE SLOPES OF 7:1 AND THE MAXIMUM HEIGHT SHALL BE 4'.
- THE BASE BID 4" TOPSOIL PLACEMENT OVER THE PAVEMENT AREA AND THE SHOULDER EXCAVATION SHALL NOT BE REQUIRED IF THE ADDITIVE ALTERNATE NO. 1 IS CONSTRUCTED.
- EARTH MATERIAL SHRINKAGE FROM INITIAL POSITION TO FINAL POSITION IS NOT SHOWN. ACTUAL SHRINKAGE WILL VARY AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY SHRINKAGE.
- ALL EARTHWORK QUANTITIES ARE CALCULATED BASED ON THE MATERIAL IN ITS INITIAL OR FINAL POSITION AS SHOWN IN THE PLANS AND QUANTIFIED BY THE METHOD OF AVERAGE END AREAS.
- UNCLASSIFIED EXCAVATION IS THE SUM OF TOPSOIL STRIPPING AND UNCLASSIFIED EXCAVATION AND IS TO BE PAID FOR UNDER ITEM NO. AR152410 IN ITS INITIAL POSITION.
- ALL HAUL ROADS TO BE CONSTRUCTED FOR THE PROJECT WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- CONTRACTOR'S HAUL ROADS TO THE SITE AND STAGING AREAS SHALL BE RESTORED WITH 4" MINIMUM OF TOPSOIL PLACED. ALL HAUL ROAD AND STAGING AREA RESTORATION SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- EMBANKMENT FILL, TOPSOIL PLACEMENT AND SHOULDER FILL ARE INCIDENTAL TO UNCLASSIFIED EXCAVATION (ITEM 152410). NO SEPARATE PAYMENT WILL BE MADE FOR EMBANKMENT FILL, TOPSOIL PLACEMENT AND SHOULDER FILL.
- PLACEMENT AND COMPACTION OF THE MILLINGS FOR THE PERIMETER ROAD AT THE SOUTH APRON SITE SHALL NOT BE PAID FOR BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. AT THE AIRPORT'S DISCRETION, ANY REMAINING MILLINGS MAY BE STOCKPILED AT THE AIRPORT AT A LOCATION AS DETERMINED BY THE AIRPORT MANAGER. SHOULD THE AIRPORT NOT ELECT TO RETAIN ANY PORTION OF THE EXCESS MILLINGS, THE CONTRACTOR SHALL DISPOSE OF THE MILLINGS OFFSITE AT NO ADDITIONAL COST TO THE CONTRACT.

EARTHWORK SUMMARY TABLE

| SEE NOTES | LOCATION | TOPSOIL STRIPPING INITIAL POSITION (CUBIC YARD) | TOPSOIL PLACEMENT FINAL POSITION (CUBIC YARD) | SHOULDER FILL FINAL POSITION (CUBIC YARD) | UNCLASSIFIED EXCAVATION INITIAL POSITION (CUBIC YARD) | EMBANKMENT FILL FINAL POSITION (CUBIC YARD) | |
|--|--|---|---|---|---|---|---|
| BASE BID | 1 TAXIWAY A AND RUNWAY 8/26 -SEE CROSS SECTIONS | 4,860 | 1,620 | 440 | 5,010 | 1,090 | |
| | 2 TRANSIENT APRON/BUILDING PADS -SEE GRADING PLAN | 2,160 | 840 | - | 2,170 | - | |
| | 3 RUNWAY 8 DISPLACED THRESHOLD -SEE LANDSCAPING AND EROSION CONTROL PLAN | - | 60 | - | 160 | 140 | |
| | 4 AUTO PARKING LOT AND ROADWAY -NORTH OF RUNWAY 8/26 -SEE SITE PLAN | - | 140 | 270 | 270 | - | |
| | 5 ESTIMATED UNSUITABLE MATERIAL (AS FIELD CONDITIONS WARRANT) | - | - | - | 450 | - | |
| TOTALS - BASE BID | | 10,360 | 6,000 | 710 | 8,060 | 1,230 | |
| | ADDITIVE ALTERNATE NO. 1 | 8 TRANSIENT APRON/BUILDING PADS (BASE BID WORK NOT REQUIRED IF ADD. ALT. NO.1 IS AWARDED) | - | - | - | 200 | - |
| | | 5 ESTIMATED UNSUITABLE MATERIAL (AS FIELD CONDITIONS WARRANT) | - | - | - | 100 | - |
| TOTALS - ADDITIVE ALTERNATE NO. 1 | | - | - | - | 300 | - | |
| TOTALS - BASE BID AND ADDITIVE ALTERNATE NO. 1 | | 10,360 | 6,000 | 710 | 8,360 | 1,230 | |

EXCESS MATERIALS TO STOCKPILES

| BASE BID + ADDITIVE ALTERNATE NO. 1 | DESCRIPTION | QUANTITY | LOCATION |
|-------------------------------------|---|----------|----------|
| 6 | EXCESS EMBANKMENT MATERIAL STOCKPILE -NEAR FUEL FARM -SEE LANDSCAPING AND EROSION CONTROL PLAN | - | - |
| 7 | EXCESS TOPSOIL MATERIAL STOCKPILE -NEAR TRANSIENT APRON -SEE LANDSCAPING AND EROSION CONTROL PLAN | - | 4,360 |

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VILLAGE OF LAKE IN THE HILLS

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 DRAWN BY: JRO
 CHECKED BY: DKP
 APPROVED BY: DLP
 DATE: 12/03/2015
 JOB No: 14255-01

FINAL

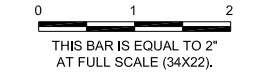
SHEET 29 OF 36 SHEETS

TAXIWAY A

IL CONTRACT: **LK012**
 IL LETTING ITEM: **4A**
 IL PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # **BOOK # 1263**

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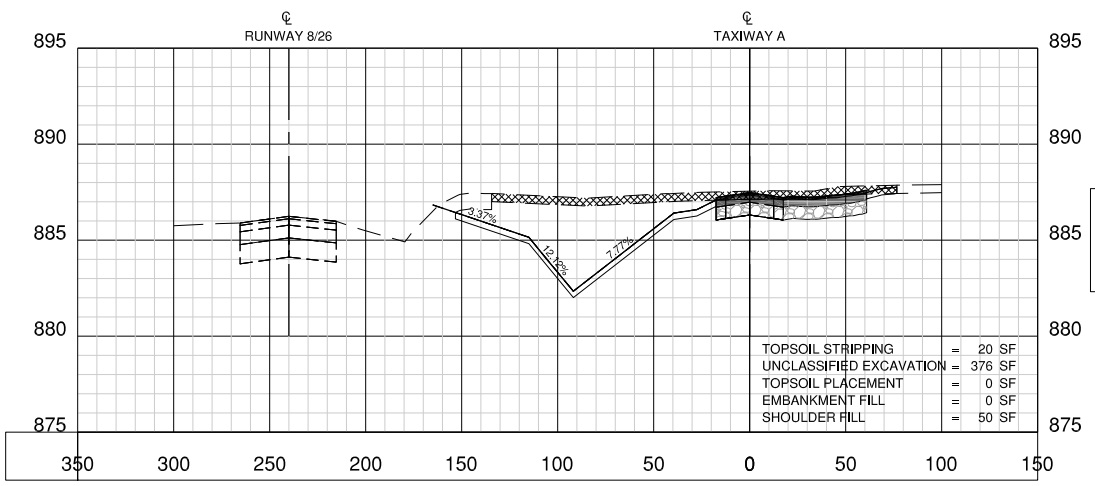
LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA

CROSS SECTIONS 1

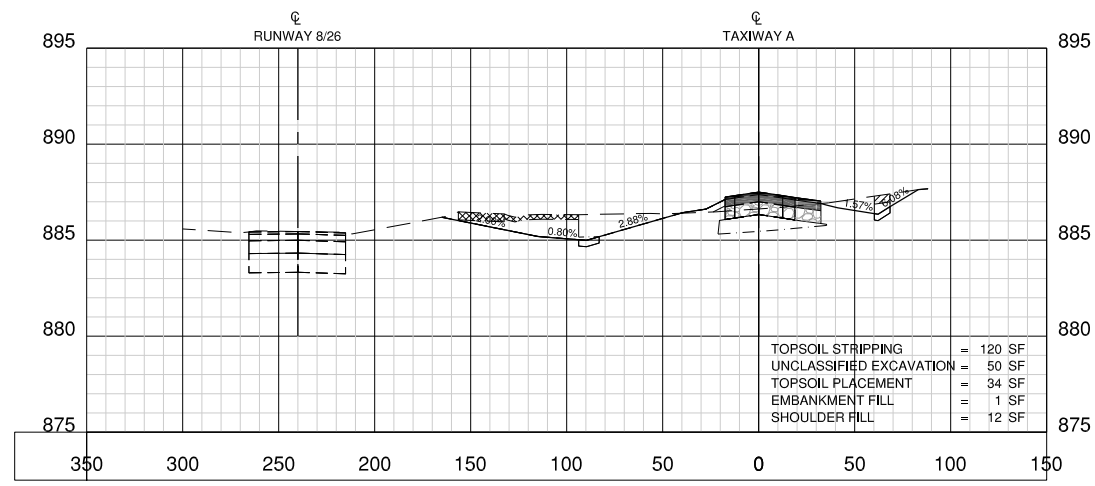


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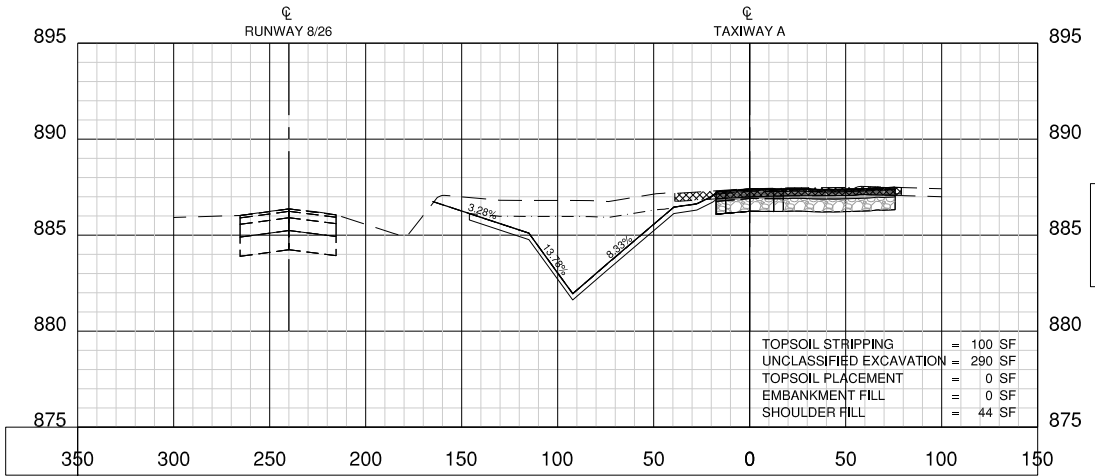
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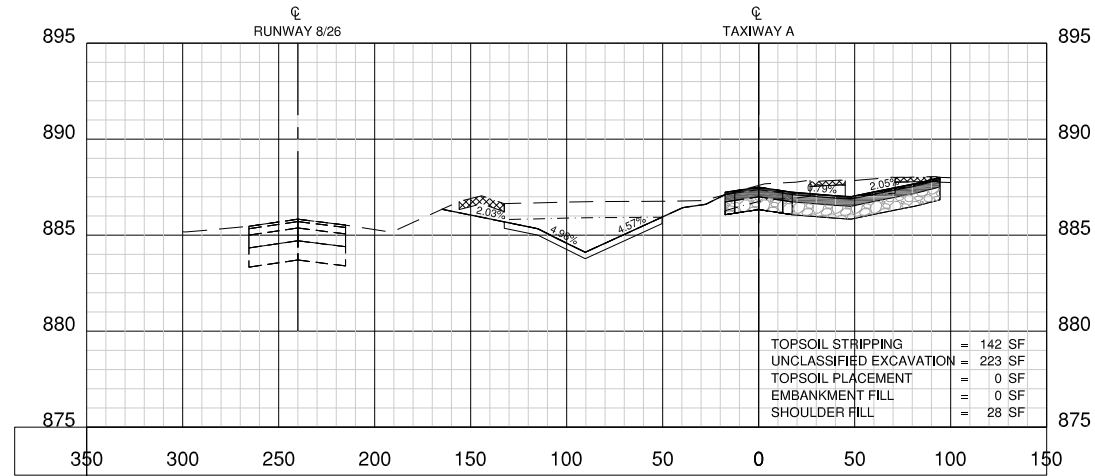
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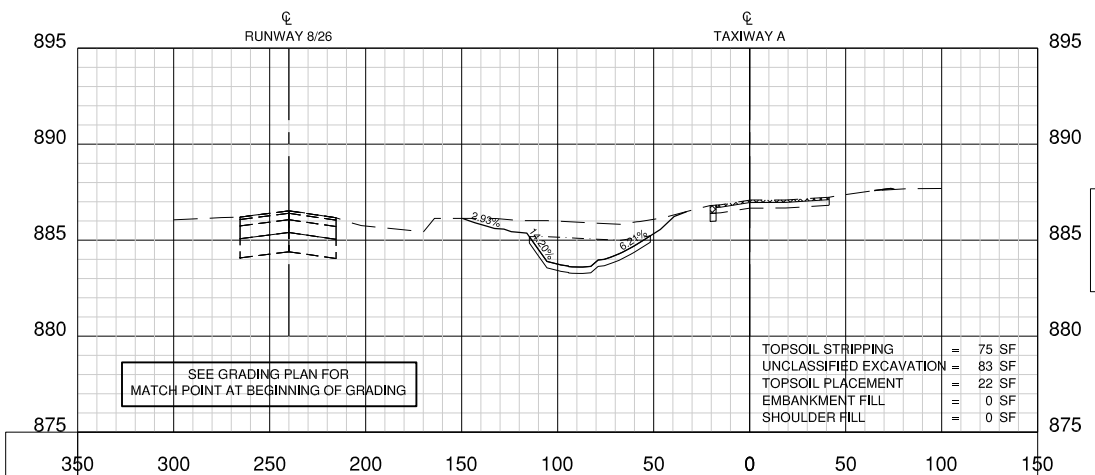
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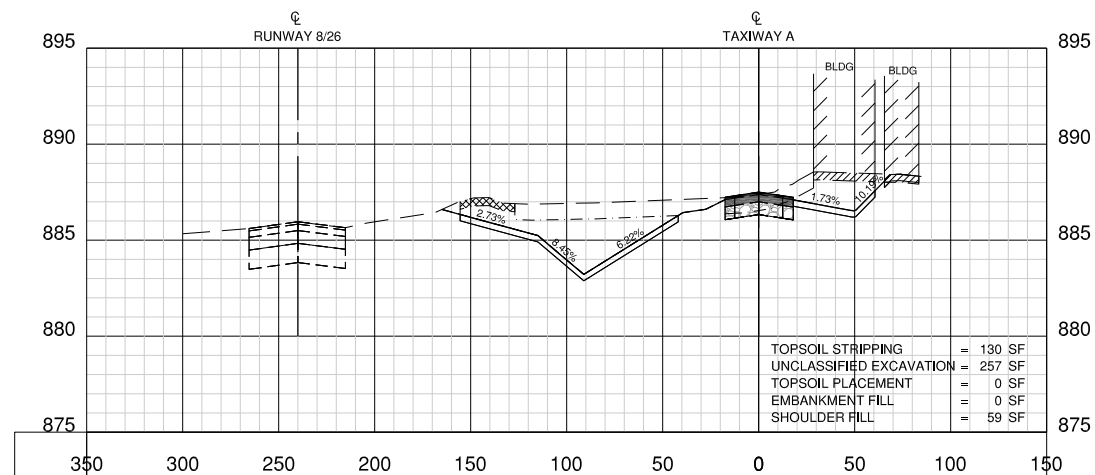
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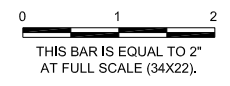
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 IL. LETTING ITEM: **4A**
 IL. PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # **BOOK # 1263**


SEE CROSS SECTIONS 1 PLAN SHEET FOR LEGEND AND CALL OUTS

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LAKE IN THE HILLS AIRPORT
LAKE IN THE HILLS, ILLINOIS
IMPROVE RUNWAY 8/26 SAFETY AREA

CROSS SECTIONS 2

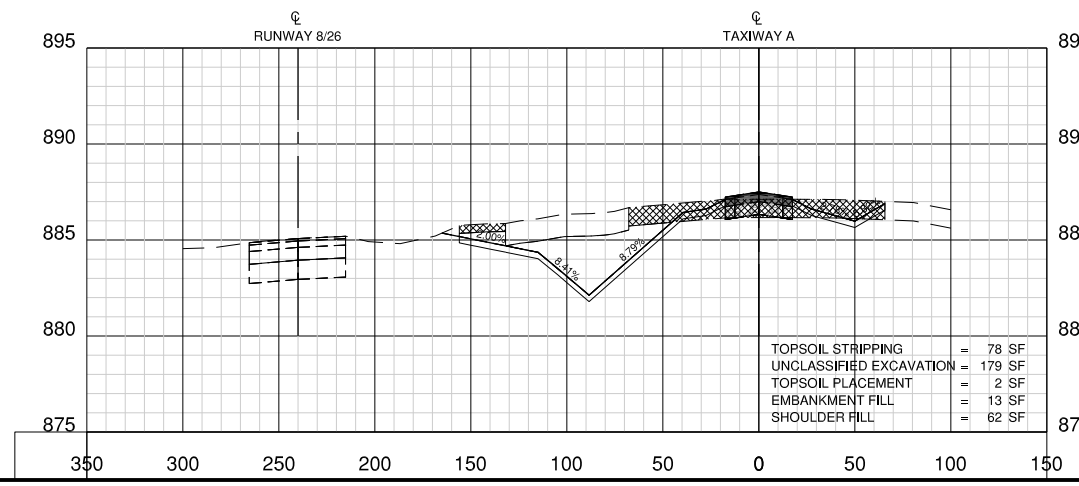
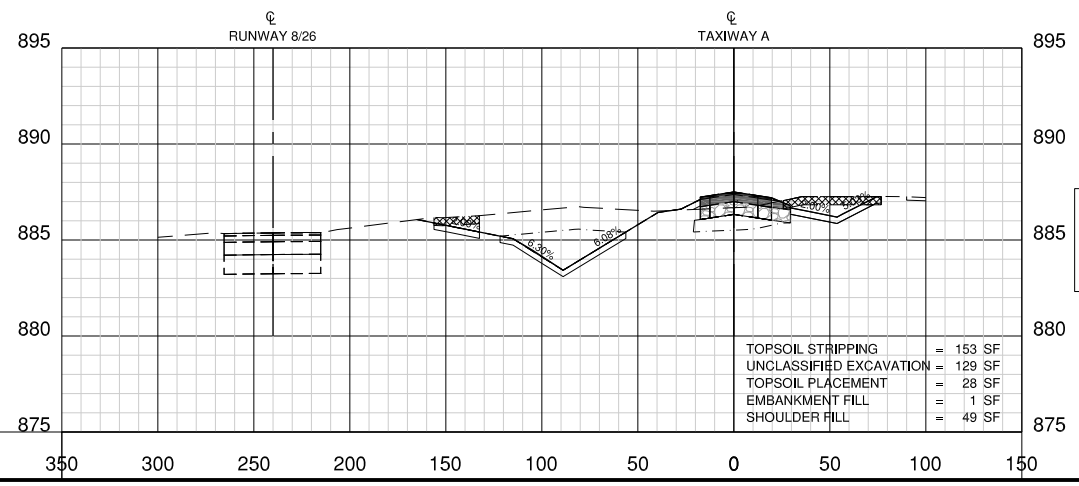
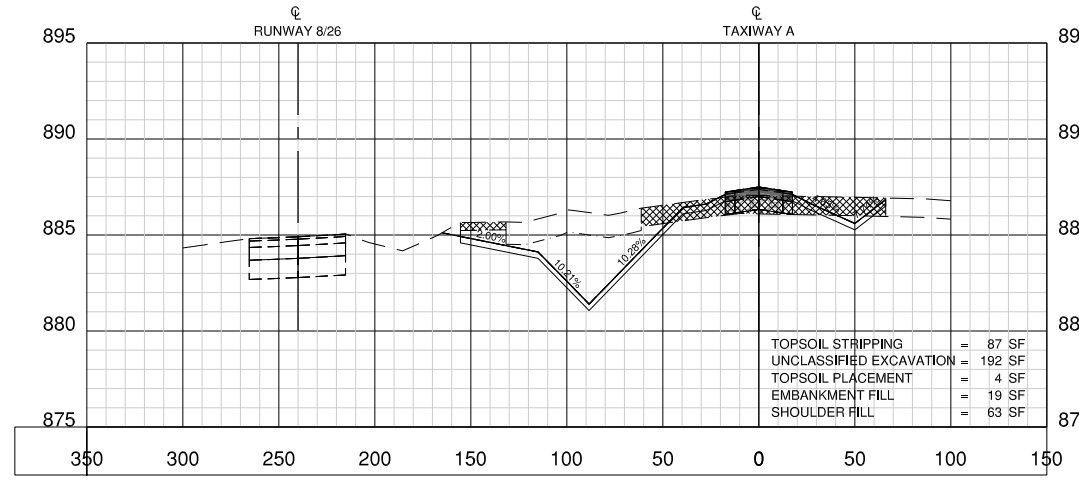
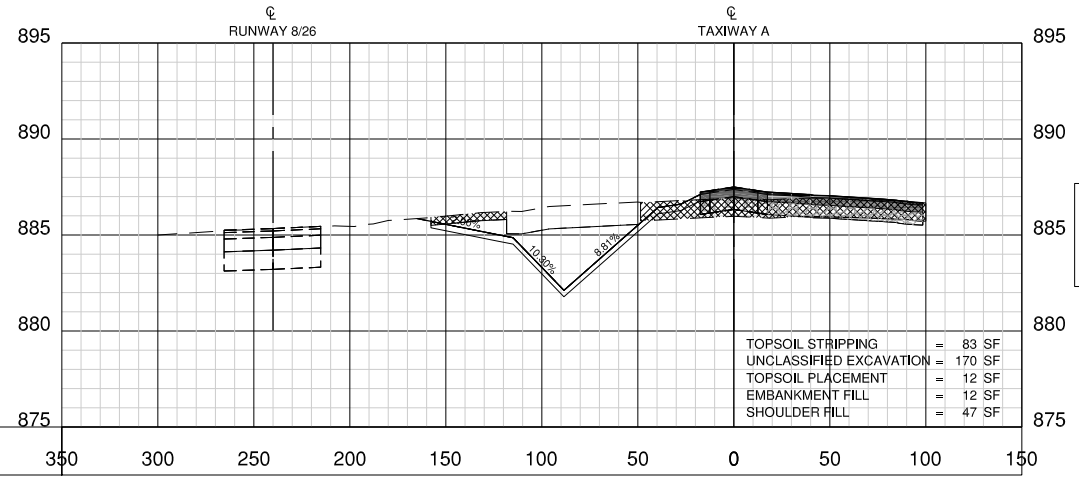
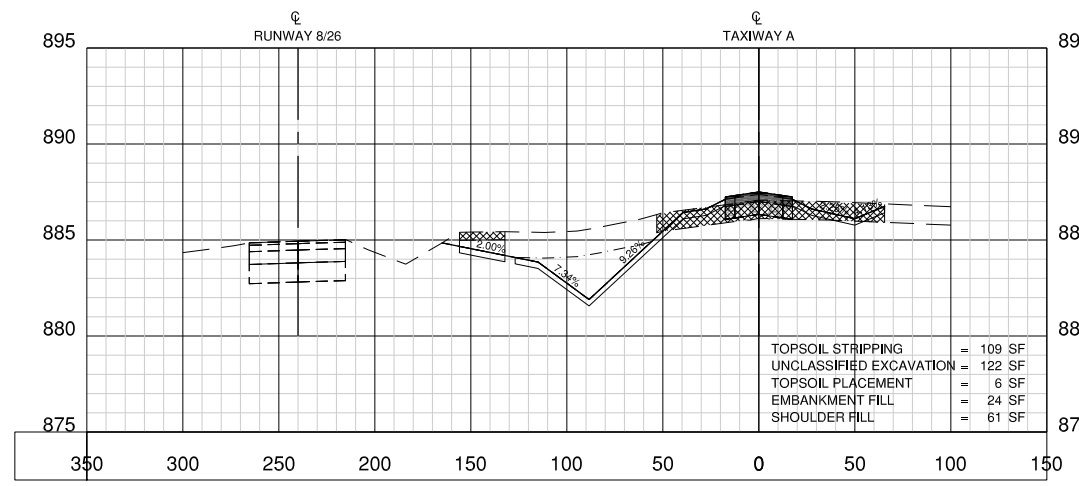
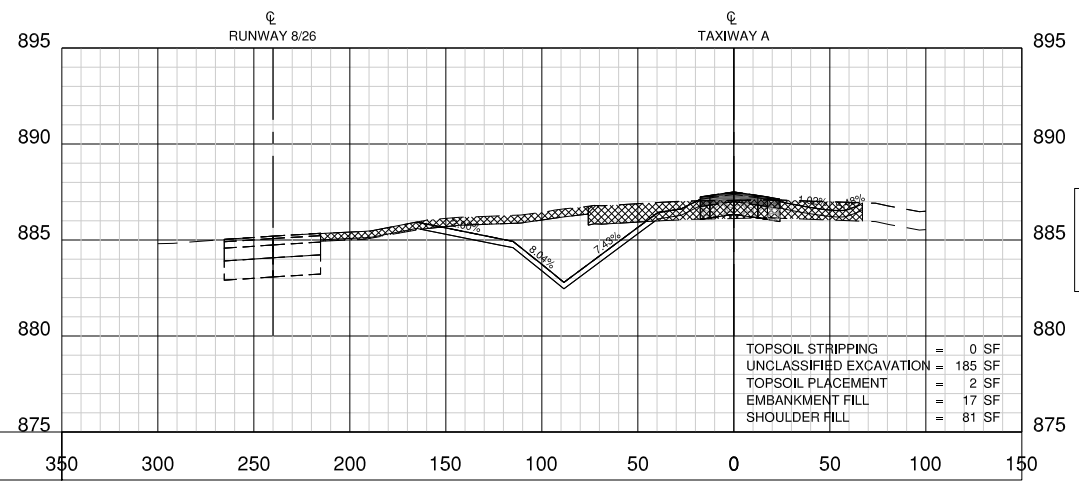


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| JOB No: | 14255-01 |

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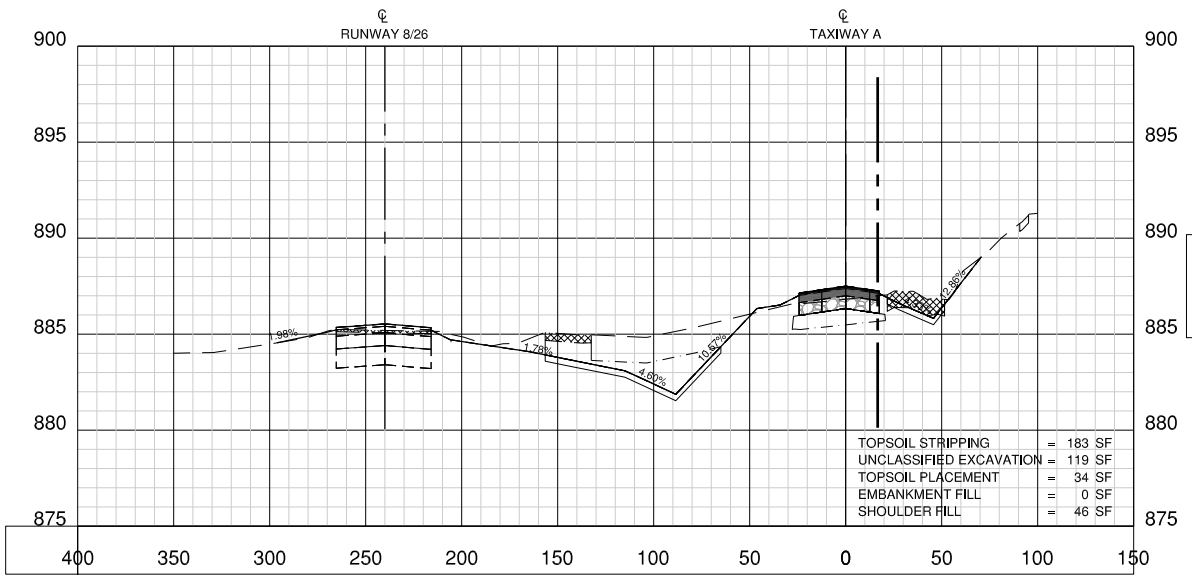
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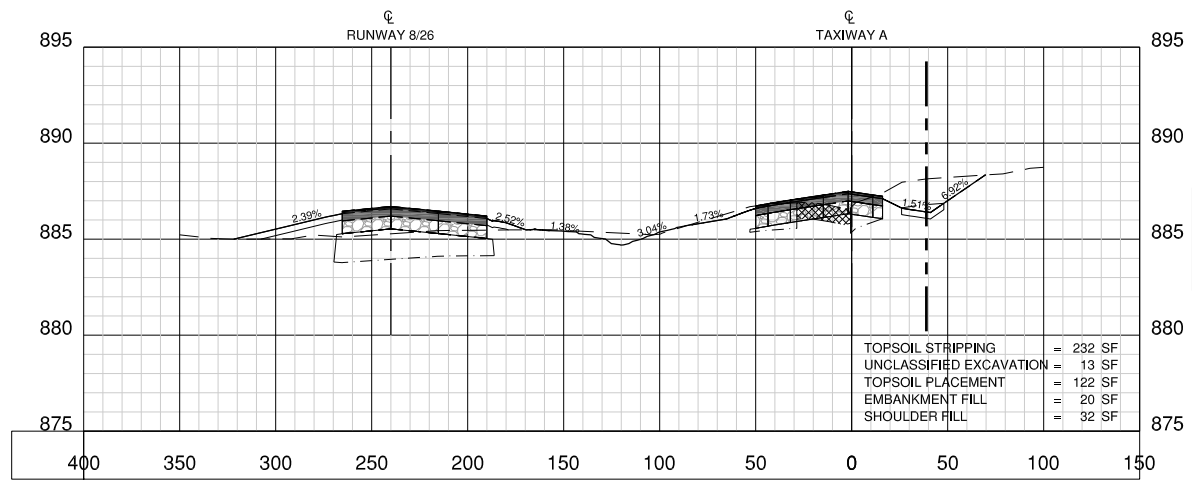
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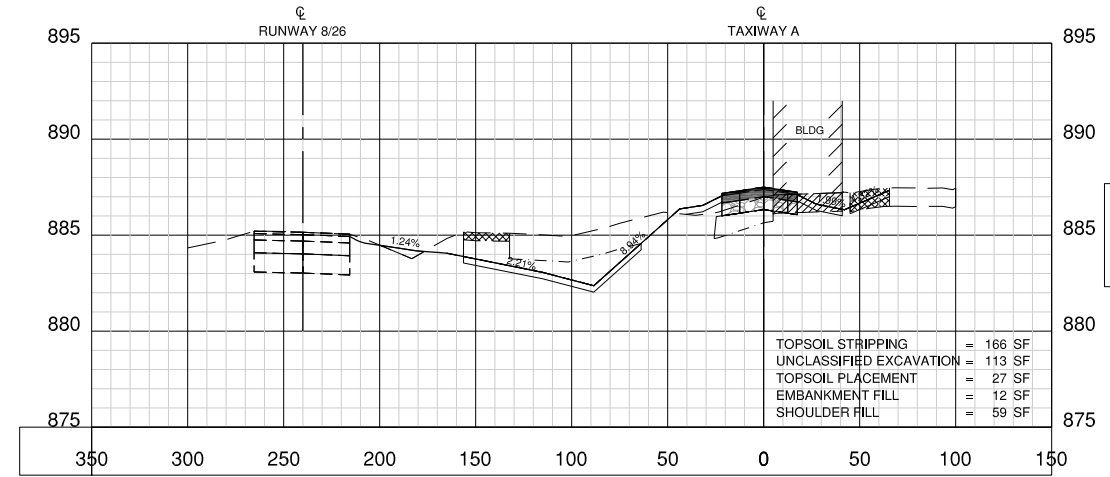
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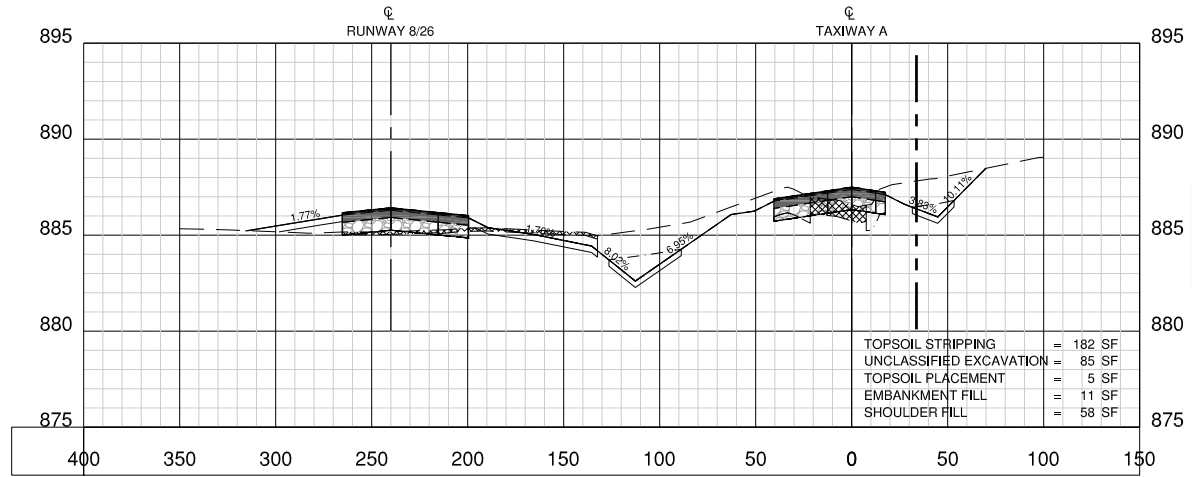
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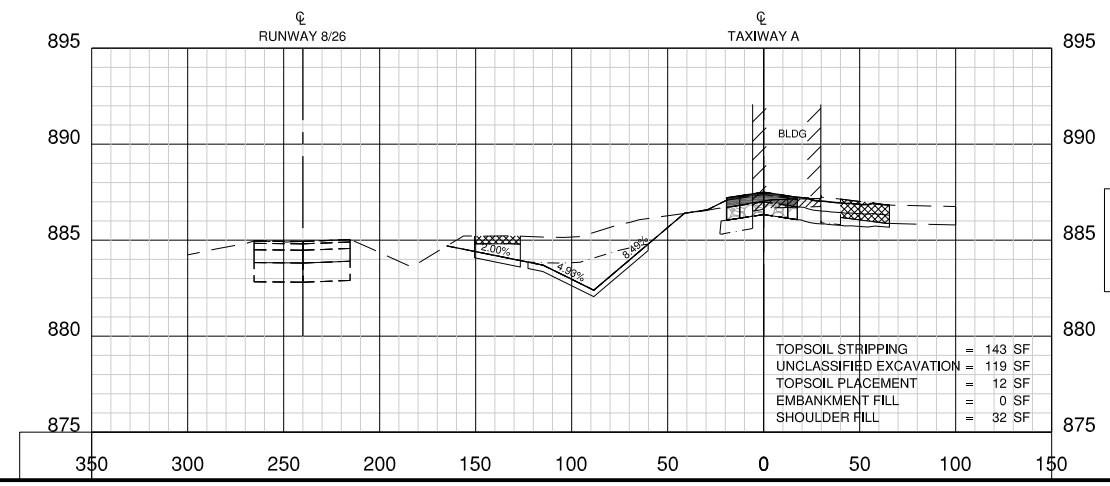
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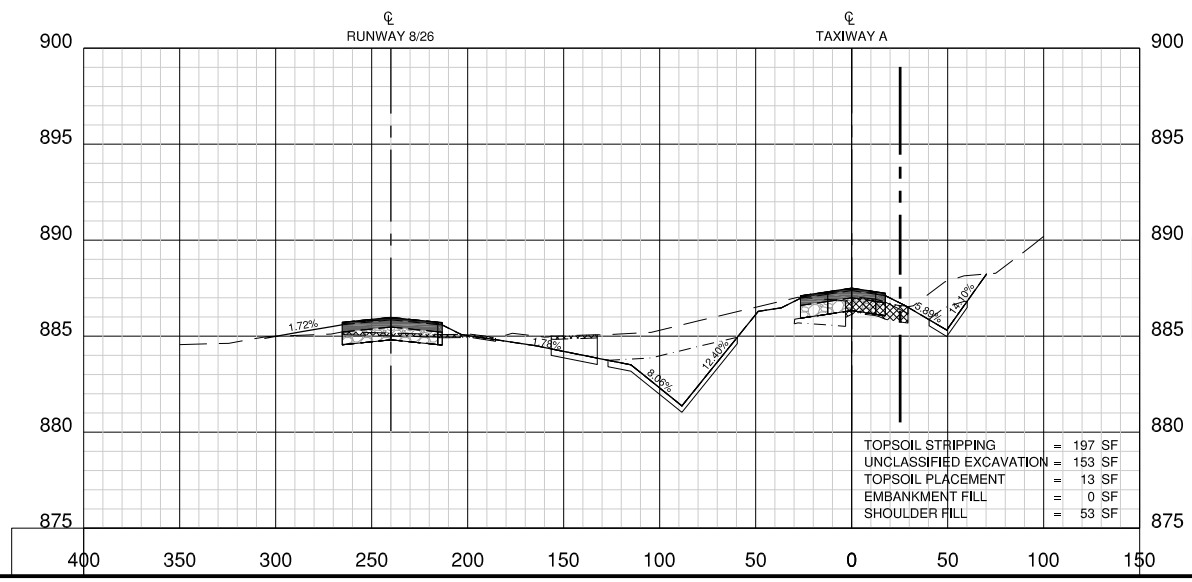
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LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA

CROSS SECTIONS 3



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 CHECKED BY: DKP
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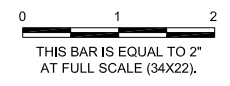
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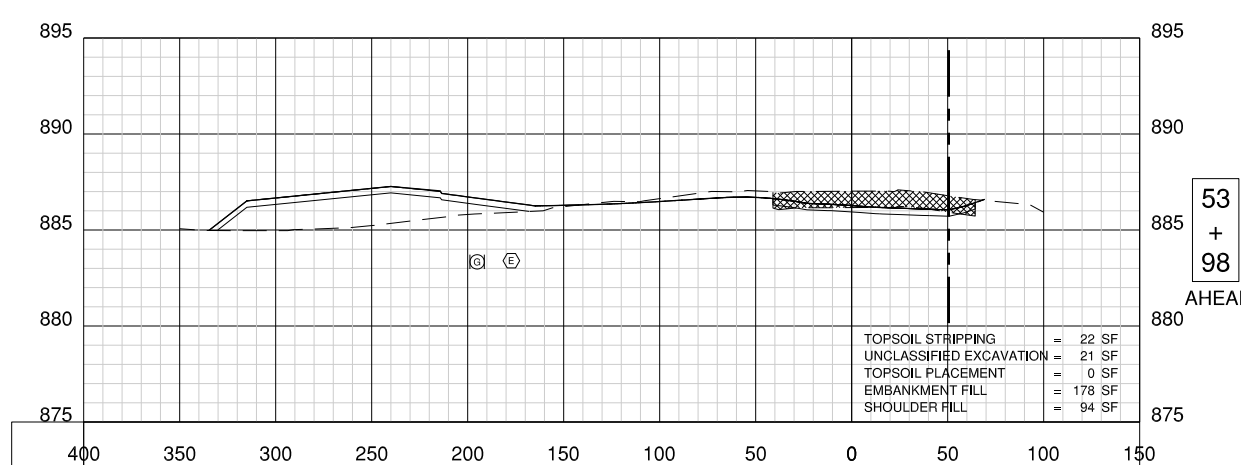
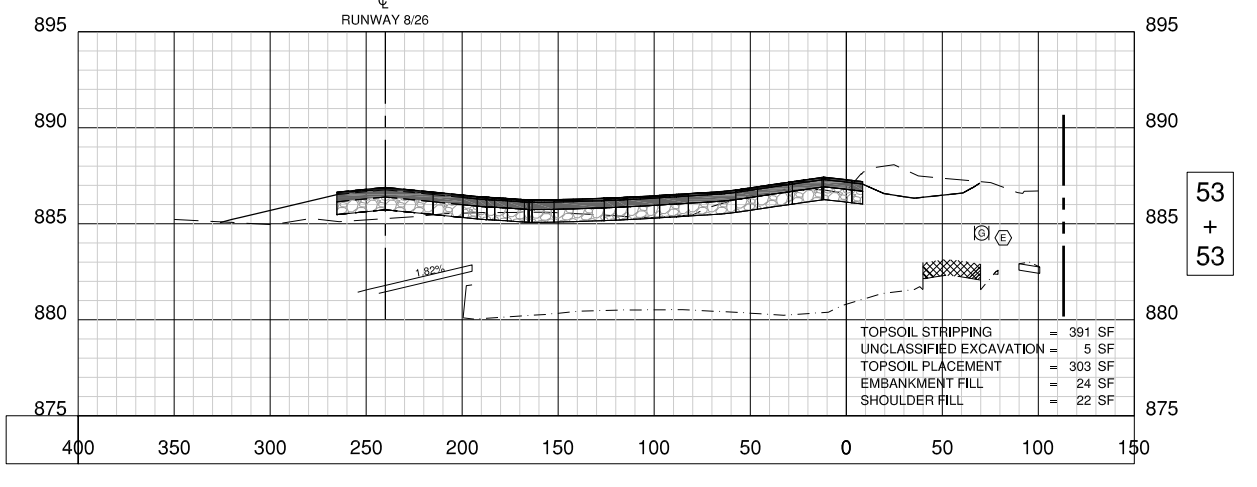
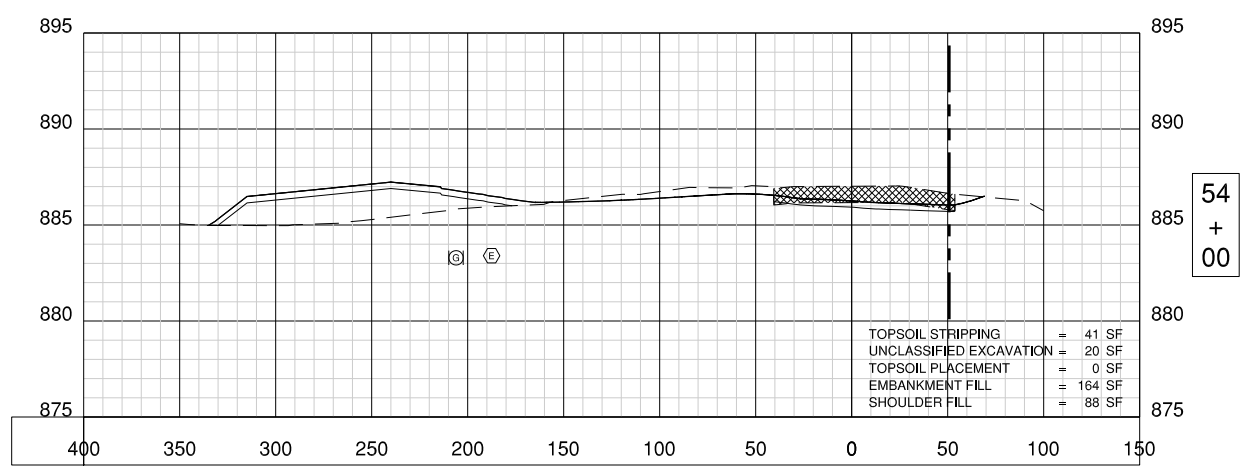
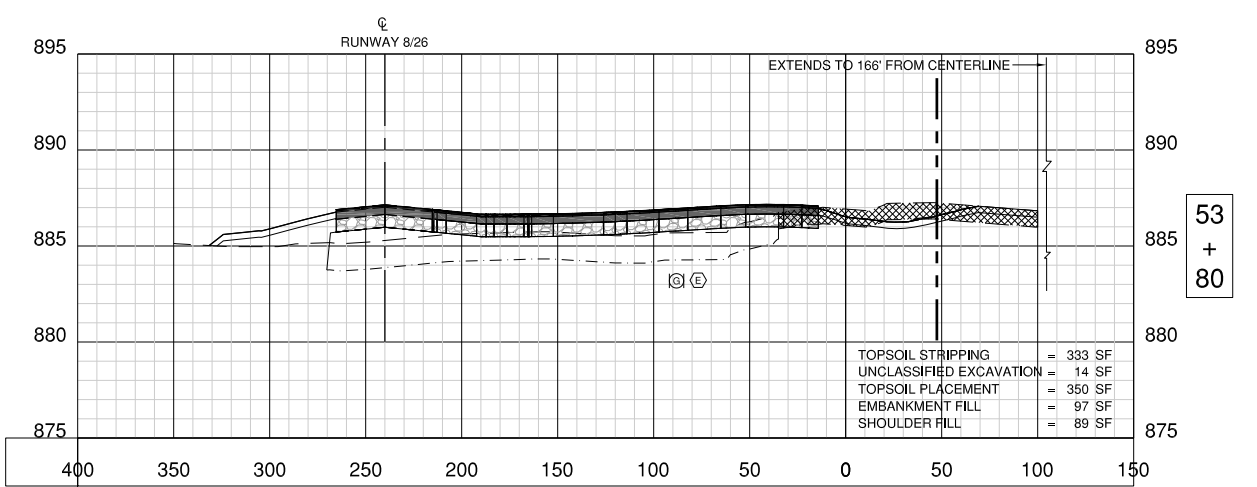
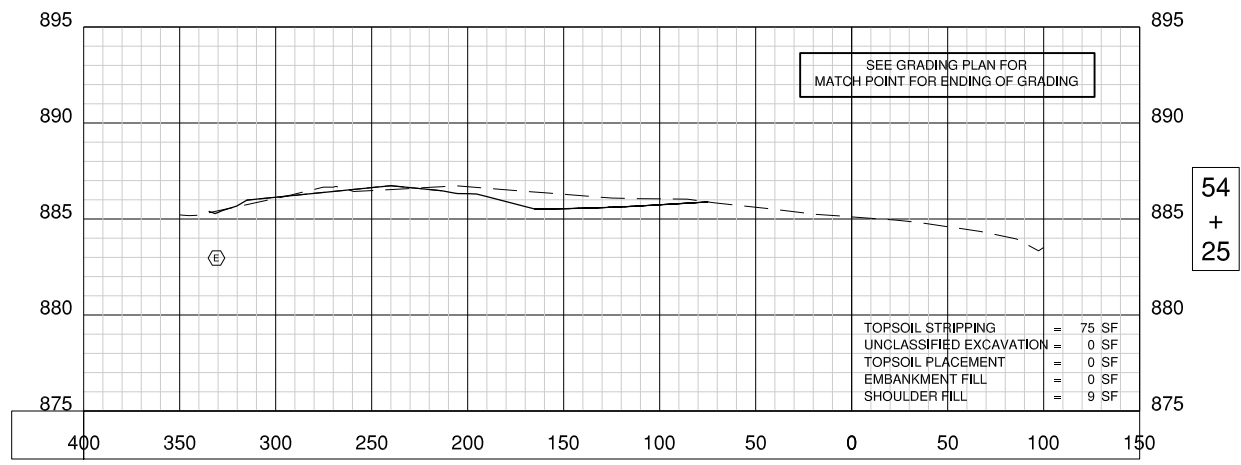
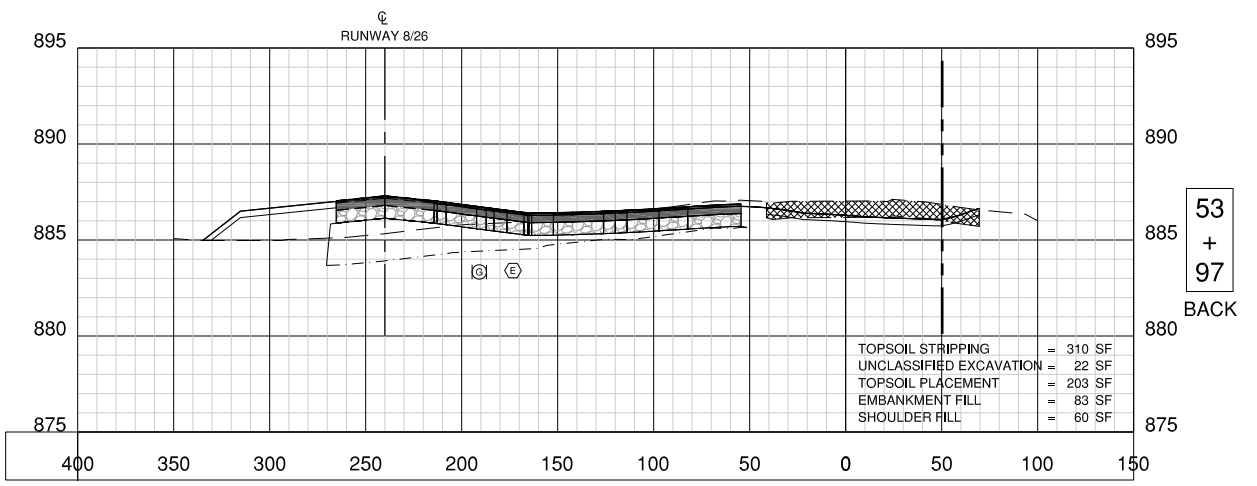
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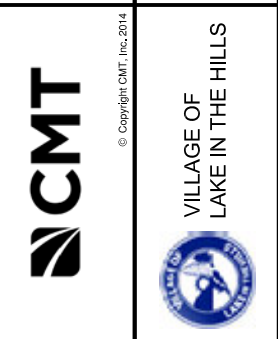
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SEE CROSS SECTIONS 1 PLAN SHEET FOR LEGEND AND CALL OUTS



LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA
CROSS SECTIONS 4

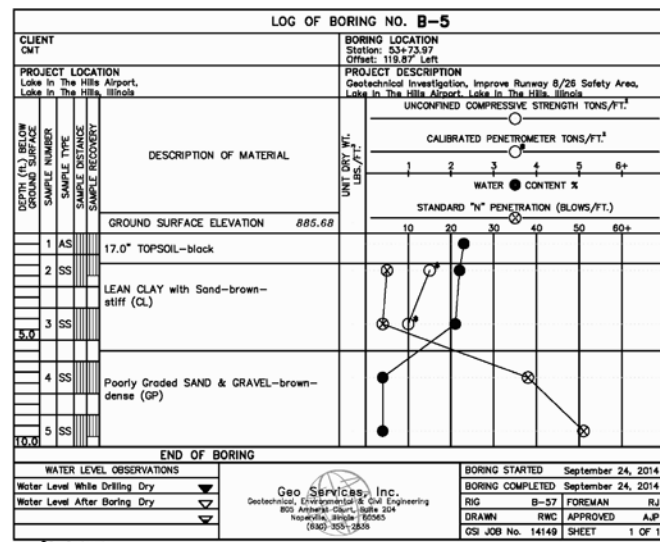
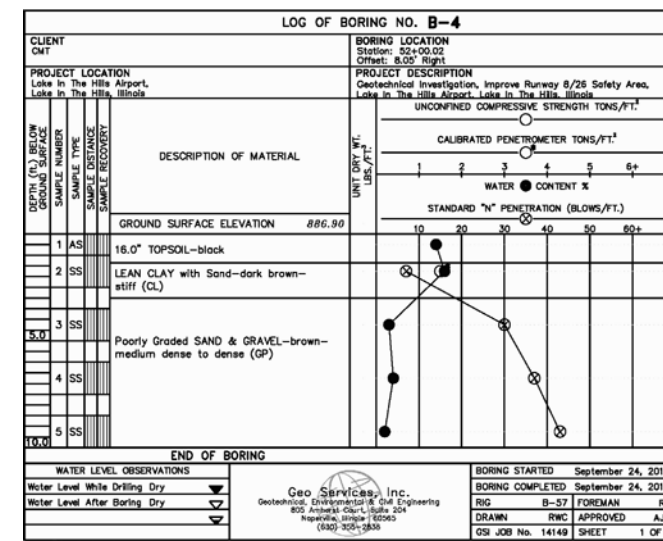
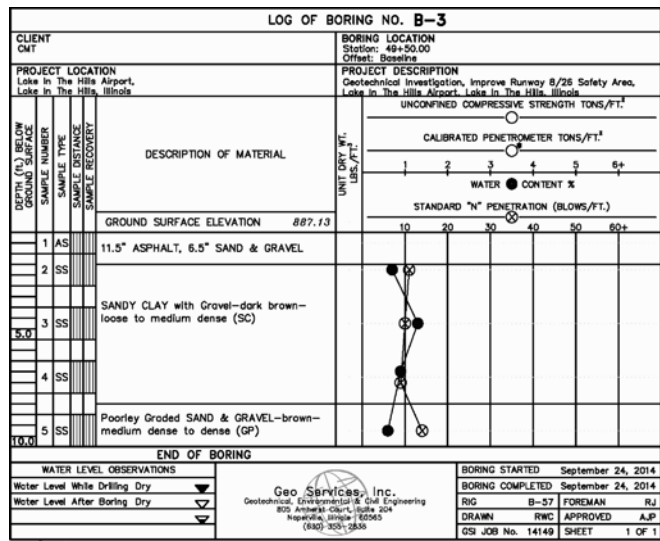
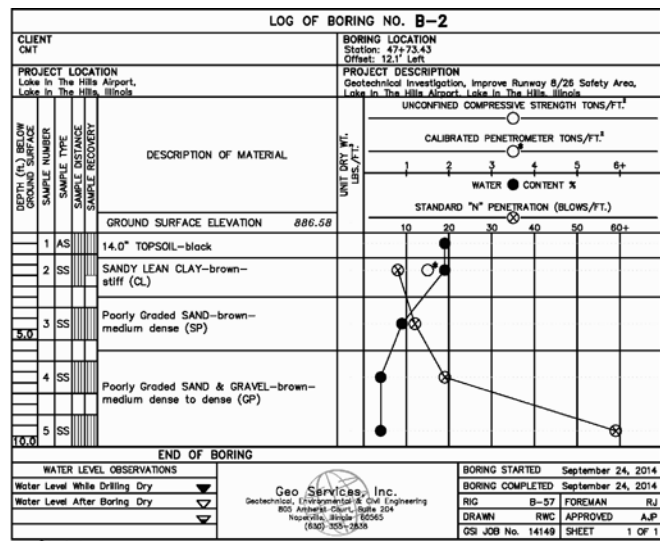
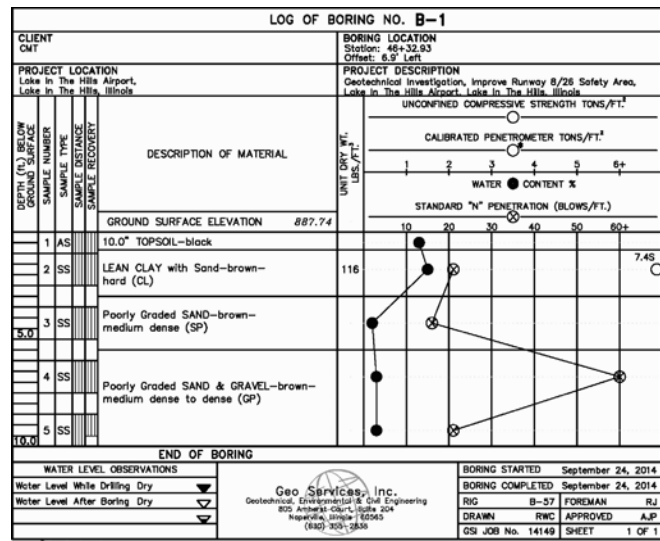


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| JOB No: | 14255-01 |

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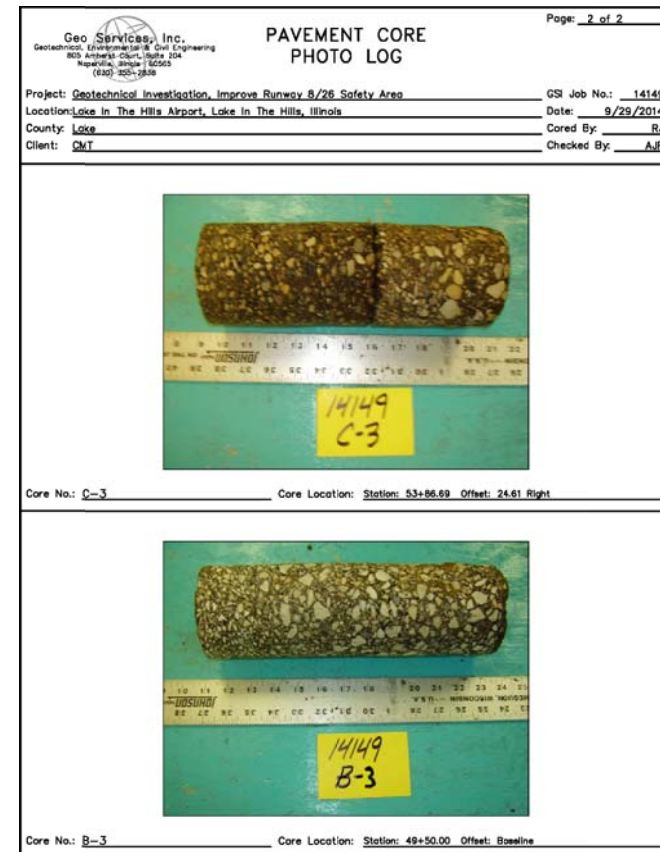
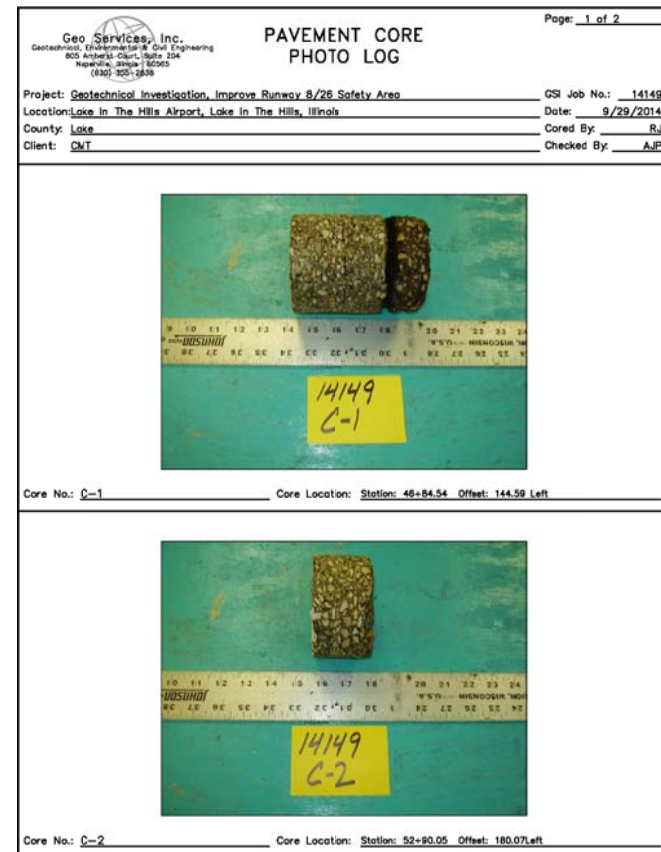
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 CLIENT: LTH Base
 DWG: LTH Base
 XREF: DWS: LTH Base
 CMT NCS TB.DWG



PAVEMENT CORE SUMMARY

Project: Geotechnical Investigation, Improve Runway 8/26 Safety Area
 Location: Lake In The Hills Airport, Lake In The Hills, Illinois
 County: Lake
 Client: CMT

| CORE NO. | THICKNESS (in.) | MATERIAL DESCRIPTION |
|----------|---|---|
| C-1 | 2.0 1.5 1.5 19.0+ | Station: 46+84.54 Offset: 144.59 Left ASPHALT-well consolidated, fine to medium coarse aggregate. ASPHALT-well consolidated, fine to medium coarse aggregate. ASPHALT-poorly consolidated @ surface, fine to medium coarse aggregate. SILTY CLAY-black |
| C-2 | 2.0 | Station: 52+90.05 Offset: 180.07 Left ASPHALT-well consolidated, fine to medium coarse aggregate. SAND & GRAVEL |
| C-3 | 2.5 3.25 1.25 1.3 1.75 10.75 8.0+ | Station: 53+86.69 Offset: 24.61 Right ASPHALT-well consolidated, fine to medium coarse aggregate. ASPHALT-well consolidated, fine to medium coarse aggregate. ASPHALT-well consolidated, fine to medium coarse aggregate. ASPHALT-well consolidated, medium coarse aggregate. ASPHALT-well consolidated, fine to medium coarse aggregate. SAND & GRAVEL SILTY CLAY-dark gray & black |
| B-3 | 3.0 8.5 12.5+ | Station: 49+50.00 Offset: Baseline ASPHALT-well consolidated, fine to medium coarse aggregate. ASPHALT-well consolidated, medium coarse aggregate. CLAYEY SAND & GRAVEL-dark gray to black |



SOIL BORING LOGS

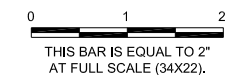
PAVEMENT CORE LOGS

IL. CONTRACT: LK012
 IL. LETTING ITEM: 4A
 IL. PROJECT: 3CK-4404
 S.B.C. PROJECT: 3-17-SBGP-XX

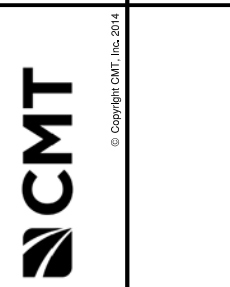
SURVEY BOOK # BOOK # 1263

REVISIONS

| NUMBER | BY | DATE |
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LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA
 ENGINEERING INFORMATION SHEET



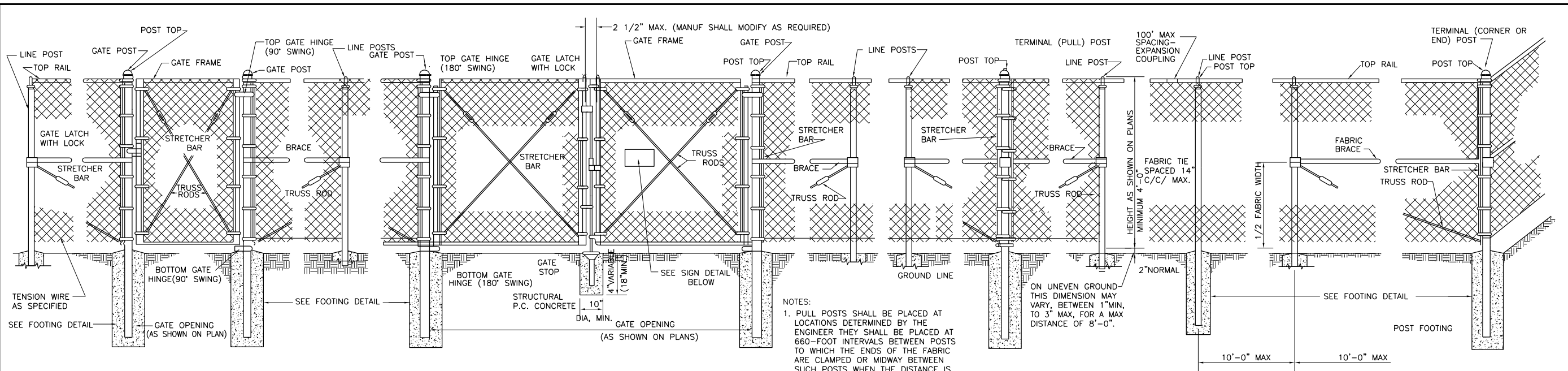
DESIGN BY: TMS
 DRAWN BY: JRO
 CHECKED BY: DKP
 APPROVED BY: DLP
 DATE: 12/03/2015
 JOB No: 14255-01

FINAL

KREF DWG: CMT NOS 18.dwg

UPDATE BY: Jim Ohse
LAYOUT: Layout1

DATE: Tuesday, December 8, 2015 12:23:15 PM
FILE: K:\Lakeland\Hills\14255-01_TypExtension\Draw\Sheets\Preliminary Plans\Fencing.dwg



NOTES:
 1. PULL POSTS SHALL BE PLACED AT LOCATIONS DETERMINED BY THE ENGINEER THEY SHALL BE PLACED AT 660-FOOT INTERVALS BETWEEN POSTS TO WHICH THE ENDS OF THE FABRIC ARE CLAMPED OR MIDWAY BETWEEN SUCH POSTS WHEN THE DISTANCE IS LESS THAN 1320' AND GREATER THAN 660'
 2. WHERE FENCE HAS A CHANGE IN DIRECTION OF 15' OR MORE, A TERMINAL POST SHALL BE PLACED AS SHOWN ABOVE.

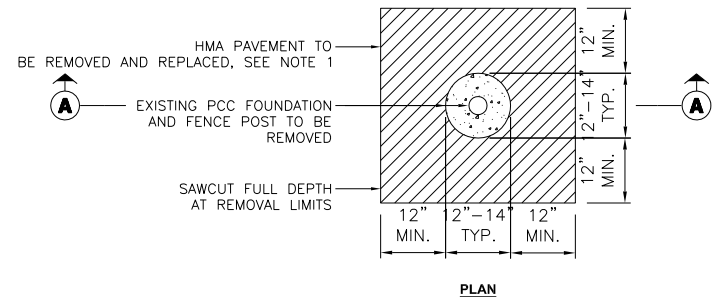
PEDESTRIAN GATE ARRANGEMENT

VEHICLE GATE ARRANGEMENT

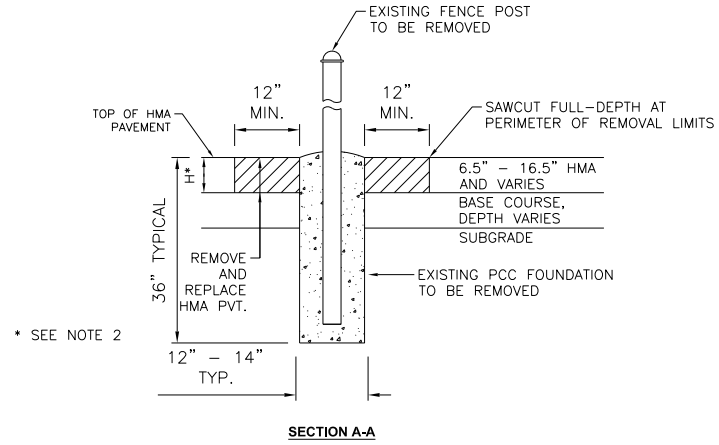
PULL POST ARRANGEMENT

LINE POST ARRANGEMENT

CORNER OF END POST ARRANGEMENT



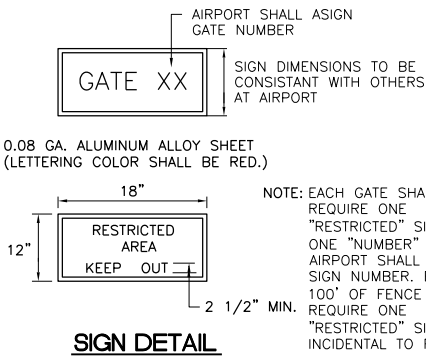
PLAN



SECTION A-A

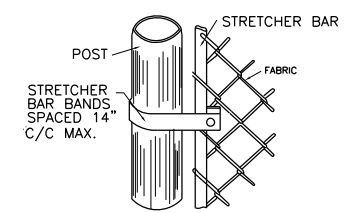
FENCE POST REMOVAL IN HMA PAVEMENT

- NOTES:**
- HMA PAVEMENT TO BE REMOVED FULL DEPTH
 - BASE COURSE AND/OR SUBGRADE TO BE REMOVED SUCH THAT THE DEPTH "H" IS A MINIMUM OF 11.5 INCHES.
 - COSTS OF PAVEMENT AND FOUNDATION REMOVAL, NEW PAVEMENT, SAW CUTTING, CLEANUP AND DISPOSAL, SHALL BE CONSIDERED INCIDENTAL TO AR162900, REMOVE CLASS E FENCE.
 - AT THE CONTRACTOR'S OPTION AND AT NO ADDITIONAL COST TO THE CONTRACT, THE CONTRACTOR MAY REMOVE A "STRIP" OF ASPHALT PAVEMENT ALONG THE FENCELINE, TO BE REPLACED IN KIND AFTER FENCELINE REMOVAL AND REPLACEMENT.
 - SAME DETAIL IS TO BE USED IF NEW POST HOLES ARE REQUIRED IN EXISTING HMA PAVEMENT, NOT INCLUDING THE REMOVAL PORTION (COST INCIDENTAL TO CONTRACT)

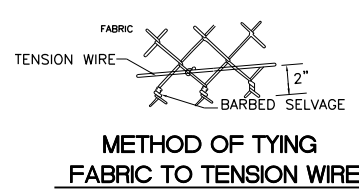


SIGN DETAIL

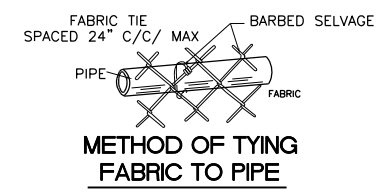
NOTE: EACH GATE SHALL REQUIRE ONE "RESTRICTED" SIGN AND ONE "NUMBER" SIGN. AIRPORT SHALL PROVIDE SIGN NUMBER. EVERY 100' OF FENCE SHALL REQUIRE ONE "RESTRICTED" SIGN. COST INCIDENTAL TO FENCE.



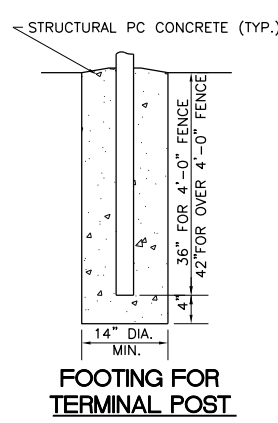
METHOD OF FASTENING STRETCHER BAR TO POST



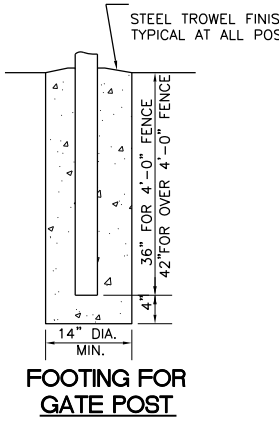
METHOD OF TYING FABRIC TO TENSION WIRE



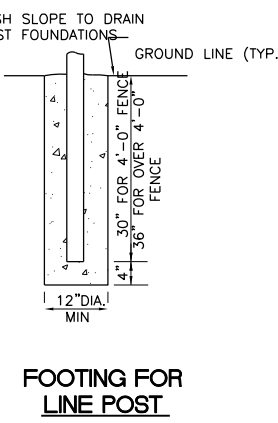
METHOD OF TYING FABRIC TO PIPE



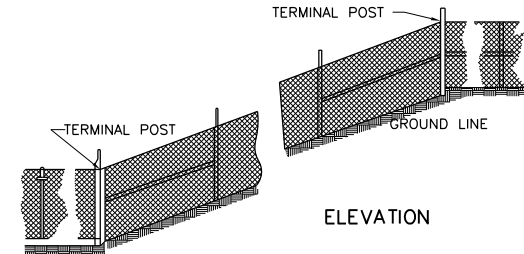
FOOTING FOR TERMINAL POST



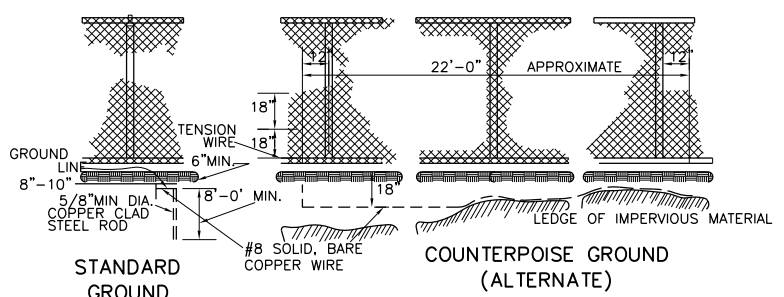
FOOTING FOR GATE POST



FOOTING FOR LINE POST



FENCE INSTALLATION ON SLOPES



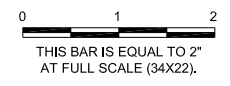
PROTECTIVE ELECTRICAL GROUND

- NOTES:**
- CONTINUOUS FENCE SHALL BE GROUNDED AT INTERVALS NOT EXCEEDING 1000' EXCEPT THERE SHALL BE A GROUND NOT EXCEEDING 100 FT. FROM A GATE IN EACH SECTION OF THE FENCE ADJACENT TO THE GATE.
 - FENCE UNDER POWER LINE SHALL BE GROUNDED BY THREE GROUNDS, ONE DIRECTLY UNDER THE CROSSING AND ONE ON EACH SIDE 25 TO 50 FT. AWAY. A SINGLE GROUND SHALL BE LOCATED DIRECTLY UNDER EACH TELEPHONE WIRE OR CABLE CROSSING.
 - THE COUNTERPOISE SHALL BE USED ONLY WHERE IT IS IMPOSSIBLE TO DRIVE A GROUND ROD BECAUSE OF AN IMPERVIOUS EARTH STRUCTURES.
 - THE GROUND WIRE SHALL BE CONNECTED TO FABRIC, TENSION WIRE, AND THE GROUND ROD BY A MECHANICAL CLAMP OF CAST BRONZE BODY AND BRONZE OR STAINLESS STEEL BOLTS AND WASHERS.

IL. CONTRACT: **LK012**
 IL. LETTING ITEM: **4A**
 IL. PROJECT: **3CK-4404**
 S.B.G. PROJECT: **3-17-SBGP-XX**

SURVEY BOOK # BOOK # 1263

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**LAKE IN THE HILLS AIRPORT
 LAKE IN THE HILLS, ILLINOIS
 IMPROVE RUNWAY 8/26 SAFETY AREA**

FENCING DETAILS

DESIGN BY: TMS
 DRAWN BY: JRO
 CHECKED BY: DKP
 APPROVED BY: DLP
 DATE: 12/03/2015
 JOB No: 14255-01

FINAL

