

SUMMARY OF QUANTITIES

| | | | | |
|-----------------------|---------|---------------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 06-00041-00-GS | DUPAGE | 32 | C2 | |
| UPRR MP: 27.48 | | UPRR SUB: GENEVA | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT | | |
| CONTRACT NO. 83977 | | | | |

GENERAL NOTES FOR SITE WORK:

1. SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS:
ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JAN. 1, 2007 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2009, THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN IN ILLINOIS, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "DETAILS" ON THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE DEPARTMENT.

2. EXISTING UTILITIES:

EXISTING UTILITIES ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION OBTAINED FROM THE UTILITY COMPANIES, VILLAGE, AND FIELD SURVEYS. THE ACCURACY AND COMPLETENESS OF SAID INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE, NATURE, AND EXACT LOCATIONS OF ALL UTILITY LINES AND APPURTENANCES WITHIN THE LIMITS OF THE IMPROVEMENTS. THE CONTRACTOR SHALL GIVE PRIOR NOTIFICATION TO THE UTILITY COMPANIES AND THE VILLAGE OF HIS INTENTION TO BEGIN WORK.

SHOULD CERTAIN EXISTING UTILITY FACILITIES INTERFERE WITH THE PROPOSED CONSTRUCTION, THEY WILL HAVE TO BE REMOVED AND RELOCATED BY THE UTILITY COMPANIES. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE THIS WORK WITH ALL AFFECTED UTILITY COMPANIES AND THE VILLAGE SO AS TO INSURE THE TIMELY COMPLETION AND MAINTENANCE OF SAID UTILITY FACILITIES.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE INTERFERENCE WITH OR DAMAGE TO ANY EXISTING UTILITY FACILITY AND APPURTENANCES SUCH AS WATER MAINS, SEWERS, GAS MAINS, ELECTRIC AND SIGNAL CABLES, CONDUITS, ETC., RESULTING FROM THE OPERATIONS OF HIS EQUIPMENT OR WORKERS AND SHALL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE AND WITH THE LEAST POSSIBLE DELAY. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY EXPENSES INCURRED BECAUSE OF THE DELAYS, INCONVENIENCES, OR INTERRUPTIONS TO HIS WORK RESULTING FROM COMPLIANCE WITH THE ABOVE REQUIREMENTS.

3. PROTECTION OF PUBLIC/Private PROPERTY:

THE CONTRACTOR SHALL PROTECT ALL EXISTING TREES AND OTHER ITEMS SCHEDULED TO REMAIN. ANY ITEM THAT IS DAMAGED SUCH AS: SHRUBS, FENCES, DRAIN LINES, POWER LINES, AND OTHER PUBLIC/Private PROPERTY SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO COST TO THE CONTRACT.

4. CONNECTIONS TO EXISTING STORM SEWERS:

ANY ADDITIONAL COSTS INVOLVED IN CONNECTING PROPOSED STORM SEWER LINES TO EXISTING STORM SEWER STRUCTURES AND PIPES SHALL BE CONSIDERED INCIDENTAL TO THE ITEM BEING CONSTRUCTED AND NO ADDITIONAL COMPENSATION ALLOWED.

5. EXISTING STREET CLEANLINESS:

THE CONTRACTOR SHALL KEEP EXISTING AND ADJACENT STREETS CLEAN OF DIRT, MUD, AND OTHER DEBRIS AT ALL TIMES AND, WHEN NECESSARY, CLEAN SAID PAVEMENTS ON A DAILY BASIS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

6. REMOVAL, MAINTENANCE AND RESETTING EXISTING MAILBOXES, WHEEL STOPS, TRAFFIC CONTROL SIGNS AND STOP SIGNS:

EXISTING MAILBOXES, TRAFFIC CONTROL AND STOP SIGNS WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED AND TEMPORARILY RELOCATED DURING CONSTRUCTION BY THE CONTRACTOR. AFTER THE WORK HAS BEEN SUBSTANTIALLY COMPLETED, SAID MAILBOXES AND SIGNS SHALL BE RESET AT A LOCATION SPECIFIED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE CONSIDERED AS AN INCIDENTAL COST TO THE CONTRACT WITH NO ADDITIONAL COMPENSATION ALLOWED. ANY SIGN DAMAGED OR LOST SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. TEMPORARY STOP SIGNS SHALL BE PLACED AS REQUIRED BY THE VILLAGE AS PART OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEM.

7. USE OF VILLAGE WATER:

THE CONTRACTOR WILL BE PERMITTED USE OF THE VILLAGE WATER UPON 24-HOUR NOTICE TO THE VILLAGE AND PAYMENT OF ANY APPLICABLE FEES.

8. EXPANSION JOINTS IN CONCRETE CONSTRUCTION:

EXPANSION JOINTS OF THE THICKNESS SPECIFIED SHALL BE PLACED AT ALL LOCATIONS SHOWN ON THE DRAWINGS AS SPECIFIED IN THE SPECIAL PROVISIONS, OR AS DIRECTED BY THE ENGINEER. THE COST OF FURNISHING AND PLACING ALL EXPANSION JOINT MATERIAL SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR THE VARIOUS CONCRETE CONSTRUCTION ITEMS OF WORK.

9. BEFORE STARTING ANY EXCAVATIONS, THE CONTRACTOR SHALL CALL "U.L.L.E." AT 811 (OR 800-882-4123) FOR FIELD LOCATIONS OF BURIED ELECTRIC, CABLE TELEVISION, FIBER OPTIC, GAS FACILITIES, WATER MAINS AND / OR SEWERS. 48 HOUR NOTIFICATION SHALL BE REQUIRED FOR EACH INSTANCE.

10. BARRICADES (AS NEEDED):

THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE. ONE (1) WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL OF THE BARRICADE.

11. THE CONTRACTOR SHALL MAKE ALL SAW CUTS REQUIRED FOR THE REMOVAL OF CONCRETE CURB & GUTTER, CONCRETE SIDEWALK, ASPHALT PAVEMENTS OR AS DIRECTED BY THE ENGINEER. THE COST FOR SAW CUTTING SHALL BE INCIDENTAL TO THE ASSOCIATED WORK ITEM AND SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT.

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|------------|---|--------|----------|
| 20100110 | Tree Removal (6 to 15 Units Diameter) | UNIT | 164 |
| 20800250 | Trench Backfill, Special | CU YD | 1,162 |
| 20900210 | Porous Granular Backfill, Special | CU YD | 445 |
| 21101645 | Topsoil Furnish and Place, 12" | SQ YD | 2,400 |
| 25000100 | Seeding, Class 1 | ACRE | 1 |
| 25000400 | Nitrogen Fertilizer Nutrient | POUND | 45 |
| 25000500 | Phosphorous Fertilizer Nutrient | POUND | 45 |
| 25000600 | Potassium Fertilizer Nutrient | POUND | 45 |
| 25100630 | Erosion Control Blanket | SQ YD | 2,400 |
| 28000400 | Perimeter Erosion Barrier | FOOT | 200 |
| 28000500 | Inlet and Pipe Protection | EACH | 6 |
| 28000510 | Inlet Filters | EACH | 18 |
| 35101600 | Aggregate Base Course, TY B, 4" | SQ YD | 268 |
| 35101800 | Aggregate Base Course, TY B, 6" | SQ YD | 356 |
| 35102400 | Aggregate Base Course, TY B, 12" | SQ YD | 1,995 |
| 35200600 | Earth Excavation | CU YD | 650 |
| 40300100 | Bituminous Materials, (Prime Coat) | GALLON | 998 |
| 40603080 | Hot Mix Asphalt Binder Course, IL-19.0, N-50 | TON | 253 |
| 40603310 | Hot Mix Asphalt Surface Course, Mix C, N-50 | TON | 170 |
| 42400200 | Portland Cement Concrete Sidewalk, 5 Inch | SQ FT | 975 |
| 42400800 | Detectable Warnings | SQ FT | 60 |
| 44000100 | Pavement Removal | SQ YD | 3,522 |
| 44000500 | Combination Curb and Gutter Removal | FOOT | 840 |
| 44000600 | Sidewalk Removal | SQ FT | 530 |
| 50200200 | Structure Excavation (Special) | CU YD | 2,690 |
| 50300225 | Concrete Structure | CU YD | 736 |
| 50300254 | Rubber Finish | SQ FT | 7,700 |
| 50800105 | Reinforcement Bars | POUND | 112,900 |
| * 50900105 | Aluminum Railing, Type L | FOOT | 96 |
| * 50900805 | Pedestrian Railing | FOOT | 864 |
| 50901765 | Pipe Handrail, Special | FOOT | 121 |
| 51204910 | Steel Sheet Piling (Special) | SQ FT | 6,500 |
| 51205210 | Temporary Steel Sheet Piling (Special) | SQ FT | 2,200 |
| 55100300 | Storm Sewer Removal, 8" | FOOT | 28 |
| 55100500 | Storm Sewer Removal, 12" | FOOT | 239 |
| 55100800 | Storm Sewer Removal, 18" | FOOT | 17 |
| 55101200 | Storm Sewer Removal, 24" | FOOT | 44 |
| 60108100 | Pipe Underdrain 4" (Special) | FOOT | 105 |
| 60108200 | Pipe Underdrain 6" (Special) | FOOT | 355 |
| 60200105 | Catch Basin, TY A, 4' Dia, TY 1, Frame & Open Lid | EACH | 1 |
| 60204805 | Catch Basin, TY A, 5' Dia, TY 11, Frame & Grate | EACH | 1 |
| 60213800 | RD-Catch Basin, 4' Dia, TY 1, Frame & Open Lid | EACH | 1 |
| 60218300 | Manhole, TY A, 4' Dia, TY 1, Frame & Open Lid | EACH | 2 |
| 60218400 | Manhole, TY A, 4' Dia, TY 1, Frame & Closed Lid | EACH | 2 |
| 60224500 | RD-Manhole, 4' Dia, TY 1, Frame & Open Lid | EACH | 2 |
| 60224600 | RD-Manhole, 4' Dia, TY 1, Frame & Closed Lid | EACH | 2 |
| 60225300 | RD-Manhole, 5' Dia, TY 1, Frame & Open Lid | EACH | 3 |
| 60234200 | Inlets, TY A, TY 1, Frame & Open Lid | EACH | 3 |
| 60236800 | Inlets, TY A, TY 11, Frame & Grate | EACH | 2 |
| 60240210 | Inlets, TY B, TY 1 Frame & Open Lid | EACH | 1 |
| 60255600 | Manholes to be Adjusted | EACH | 4 |
| 60406000 | Frames and Lids, TY 1, Open Lid | EACH | 2 |
| 60406100 | Frames and Lids, TY 1, Closed Lid | EACH | 1 |
| 60500040 | Removing Manholes | EACH | 5 |
| 60500060 | Removing Inlets | EACH | 1 |
| 60600505 | Concrete Curb (Special) | FOOT | 430 |
| 60604200 | Comb. Concrete Curb & Gutter, TY B6.12, Special | FOOT | 568 |
| 61139900 | Storm Sewers, Special, 6" | FOOT | 67 |
| 61140500 | Storm Sewers, Special, 16" | FOOT | 56 |
| 64100115 | Sight Screen (Wooden Fence), TY P, 6" | FOOT | 100 |
| 64400570 | Chain Link Fence, 3' (Special) | FOOT | 970 |
| 64410700 | Chain Link Gates (Special) | EACH | 6 |
| 67100100 | Mobilization | LSUM | 1 |
| 70101700 | Traffic Control & Protection | LSUM | 1 |
| 72000100 | Sign Panel, Type 1 | SQ FT | 40 |
| 72900100 | Metal Sign Post, Type A | FOOT | 100 |
| * 78001100 | Paint Pavement Marking, Letters & Symbols | SQ FT | 44 |
| * 78001110 | Paint Pavement Marking, Line 4" | FOOT | 1,318 |
| 550A0050 | Storm Sewers, CL A, TY 1, 12" | FOOT | 160 |
| 550A0110 | Storm Sewers, CL A, TY 1, 21" | FOOT | 27 |
| 550A0120 | Storm Sewers, CL A, TY 1, 24" | FOOT | 31 |
| 550A0320 | Storm Sewers, CL A, TY 2, 8" | FOOT | 57 |
| 550A0340 | Storm Sewers, CL A, TY 2, 12" | FOOT | 62 |
| 550A0360 | Storm Sewers, CL A, TY 2, 15" | FOOT | 137 |
| 550A0380 | Storm Sewers, CL A, TY 2, 18" | FOOT | 154 |
| 550A0410 | Storm Sewers, CL A, TY 2, 24" | FOOT | 25 |
| X0323350 | Furnish and Setting Brick Pavers | SQ FT | 3,200 |
| XX001621 | Brick Paver Removal | SQ FT | 435 |
| XX003308 | Trench Drain | FOOT | 18 |
| XX003816 | Furnish & Install Concrete Wheel Stops | EACH | 4 |
| XX004895 | Pipe Underdrain Cleanout, Complete | EACH | 8 |
| XX005656 | Inlet Filter Cleaning | EACH | 15 |
| * Z0020000 | Electrical System Complete | LSUM | 1 |
| Z0022800 | Fence Removal | FOOT | 160 |
| * Z0036500 | Painting | LSUM | 1 |
| Z0048665 | Railroad Protective Liability Insurance | LSUM | 1 |
| A Z0076600 | Trainees | HOUR | 1,000 |
| XX007940 | Insulation | SQ FT | 750 |
| XX007941 | Prefab Canopy Assembly (11'-10" Wide) Complete | FOOT | 32 |
| XX007942 | Prefab Canopy Assembly (6'-8" Wide) Complete | FOOT | 106 |
| XX007943 | Steel Casing Pipe, Special, Tunneled | FOOT | 113 |

* Specialty Items Δ Y080

UPRR AND SPECIAL REQUIREMENTS

- THE CONTRACTOR IS TO SUBMIT TO THE RAILROAD FOR REVIEW AND APPROVAL THE PROCEDURE AND THE SCHEDULE FOR THE PROPOSED INSTALLATION.
- THE CONTRACTOR MUST MONITOR AND RECORD TOP OF RAIL ELEVATION, BALLAST MOVEMENT AND TRACK ALIGNMENT DURING INSTALLATION OF THE PROPOSED PIPE. THE MOVEMENT SHALL BE WITHIN 1/4 OF AN INCH OR LESS AS DEFINED BY THE LOCAL MTM. DISPLACEMENT EXCEEDING THE LIMITS DEFINED MUST BE IMMEDIATELY REPORTED TO THE RAILROAD. ALL WORK ON THE PROJECT MUST STOP AND THE RAILROAD MAY TAKE ANY ACTION NECESSARY TO ENSURE SAFE PASSAGE OF TRAINS. THE CONTRACTOR MUST IMMEDIATELY SUBMIT CORRECTIVE ACTION PLANS TO THE RAILROAD FOR REVIEW AND APPROVAL. THE RAILROAD MUST REVIEW AND APPROVE THE PROPOSED REPAIR PROCEDURE. THE REPAIR MUST BE INSPECTED BY THE RAILROAD BEFORE THE TRACK CAN BE PLACED BACK IN SERVICE.
- ANY SHORING SYSTEM THAT IMPACTS THE RAILROAD'S OPERATION AND/OR SUPPORTS THE RAILROAD'S EMBANKMENT SHALL BE DESIGNED AND CONSTRUCTED PER RAILROAD GUIDELINES FOR TEMPORARY SHORING.
- ALL SAFETY PRECAUTIONS AND MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COSTS FOR TEMPORARY FENCING, FLAG MEN AND SIGNAGE TO PROTECT WORKERS, PEDESTRIANS AND VEHICULAR TRAFFIC SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BEAR THE COST FOR ANY AND ALL LIABILITY AND COMPREHENSIVE INSURANCE(S) REQUIRED BY THE UNION PACIFIC RAILROAD, METRA PASSENGER SERVICES AND THE VILLAGE OF WINFIELD. ALL REQUIRED INSURANCE SHALL BE ACQUIRED PRIOR TO COMMENCEMENT AND MAINTAINED THROUGHOUT THE COURSE OF THE PROJECT UNTIL FINAL ACCEPTANCE BY THE UNION PACIFIC RAILROAD, METRA PASSENGER SERVICES AND THE VILLAGE OF WINFIELD.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE FULLY WITH REPRESENTATIVES OF UNION PACIFIC, METRA AND THE VILLAGE OF WINFIELD. ANY LIMITATION ON WORK HOURS SHALL BE STRICTLY ADHERED TO.

I.D.O.T. DIST. 1 APPLICABLE HIGHWAY STANDARDS

| STANDARD NO. | TITLE |
|--------------|---|
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-02 | AREAS OF REINFORCED CONCRETE BARS |
| 001006 | DECIMAL OF INCH AND FOOT |
| 420001-07 | PAVEMENT JOINTS |
| 424001-05 | CURB RAMPS FOR SIDEWALK |
| 602001-01 | CATCH BASIN - TYPE A |
| 602301-02 | INLET - TYPE A |
| 602306-02 | INLET - TYPE B |
| 602401-02 | MANHOLE - TYPE A |
| 602601-02 | PRECAST CONCRETE FLAT TOP SLAB |
| 602701-02 | MANHOLE STEPS |
| 604001-03 | FRAME AND LIDS - TYPE 1 |
| 604051-03 | FRAME AND GRATE - TYPE 11 |
| 606001-04 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER |
| 641006-01 | SIGHT SCREEN WOOD PLANK FENCE TYPE P |
| 664001-02 | CHAIN-LINK FENCE |
| 701501-05 | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED |
| 701901-01 | TRAFFIC CONTROL DEVICES |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |
| 720006-02 | SIGN PANEL ERECTION DETAILS |
| 720011-01 | METAL POSTS FOR SIGNS |

BENCHMARKS:

REFERENCE BENCHMARK:
BRONZE MARKER ON SOUTHWEST WING WALL SET BY DUPAGE COUNTY ON WINFIELD ROAD AT THE BRIDGE OVER WINFIELD CREEK (BM 30)
ELEV. 714.98 (U.S.G.S.-N.G.V.D.)

SITE BENCHMARK #1:
NORTHWEST CORNER OF EXISTING CONCRETE SLAB OF THE PAY BOOTH AT THE SOUTHWEST CORNER OF THE EXISTING METRA PARKING LOT
ELEV. 737.22 (U.S.G.S.-N.G.V.D.)

SITE BENCHMARK #2:
BURY TAG BOLT ON THE FIRE HYDRANT AT THE NORTH END OF (SOUTH) CHURCH ST.
ELEV. 730.80 (U.S.G.S.-N.G.V.D.)

SEE BILL OF MATERIALS ON SHTS. S1, S4, S7 & S15 FOR BREAKDOWN OF STRUCTURAL QUANTITIES

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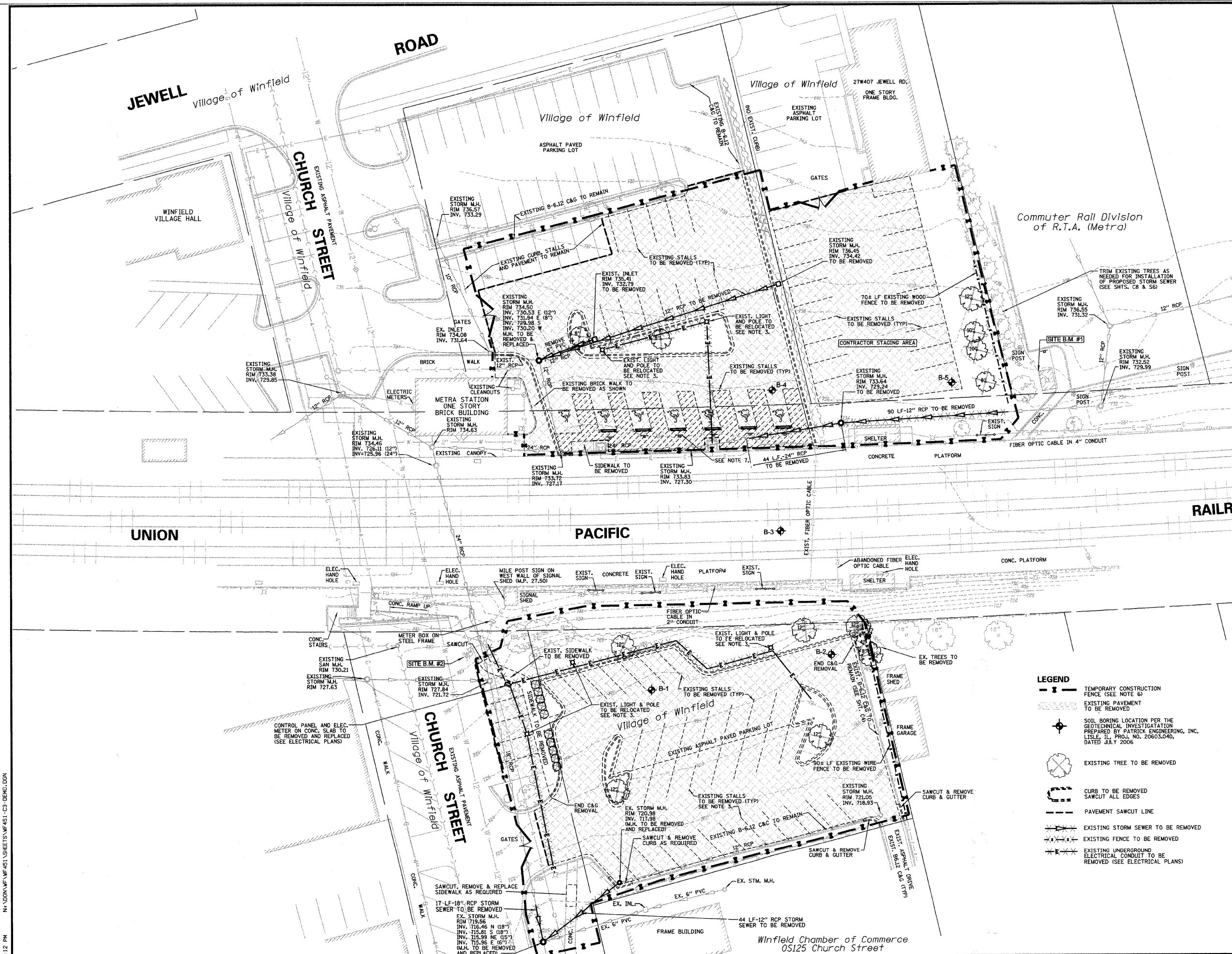
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|---|---------|--------|-----|------|-----------|----|
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| | Design | J.B. | | | | |
| | Drawn | D.B.E. | | | | |
| | Checked | E.J. | No. | Date | Revisions | By |

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PROJECT
PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

SHEET TITLE
APPLICABLE HIGHWAY STANDARDS, GENERAL NOTES & SUMMARY OF QUANTITIES

| | | |
|-------|---------------|---------------|
| SCALE | PROJECT NO. | SHEET |
| NONE | WF-451 | No. C2 |
| | DATE | Of C11 |
| | DEC. 19, 2008 | |



- NOTES:**
- THE PLANS SHOW THE LOCATION OF CERTAIN UNDERGROUND AND OVERHEAD UTILITY LINES, WATER MAINS, GAS MAINS, COMMUNICATIONS LINES, SEWERS, ETC. EVERY POSSIBLE MEANS HAS BEEN EMPLOYED TO RESEARCH AND FIELD LOCATE THESE FACILITIES INCLUDING ON-SITE EXPLORATION, JULI, I.E. LOCATORS, VILLAGE OF WINFIELD RECORDS, NICOR, AT&T AND COMMONWEALTH EDISON. THE LOCATION OF THE FIBER OPTIC CABLE WAS VERIFIED AT FIELD MEETINGS WITH SPRINT CABLE REPRESENTATIVES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PROTECTION FROM DAMAGE TO THESE AND ANY UNFORESEEN FACILITIES DURING ALL PHASES OF CONSTRUCTION.
 - IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO CONTACT ANY AND ALL PRIVATE UTILITY OWNERS IN ADVANCE TO LOCATE AND COORDINATE ANY RELOCATION OF ANY UTILITY THAT MAY BE AFFECTED BY HIS WORK. ALL REQUISITE COORDINATION EFFORT AND DELAY NECESSARY TO RELOCATE UTILITIES SHALL BE CONSIDERED THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT. SEE SPECIAL PROVISIONS FOR MORE REQUIREMENTS.
 - FOR ANY AND ALL DEMOLITION AND / OR RELOCATION OF ANY ELECTRICAL CONDUIT AND FEEDS, SITE LIGHTING, COMMUNICATION CABLES AND APPURTENANCES FOR THESE UTILITIES, REFER TO THE ELECTRICAL AND PLANS PREPARED BY POWRTEK ENGINEERING.
 - ANY AND ALL DEMOLITION AND / OR RELOCATION OF ANY UNDERGROUND FIBER OPTIC CABLE AND APPURTENANCES SHALL BE PERFORMED BY SPRINT CABLE (PHONE: 214-707-1271).
 - ANY AND ALL DEMOLITION AND / OR RELOCATION OF ANY UNDERGROUND NATURAL GAS SUPPLY PIPING AND APPURTENANCES SHALL BE PERFORMED BY NICOR GAS (PHONE: 630-844-2040).
 - INSTALL 8 FT. HIGH CHAIN LINK TEMPORARY CONSTRUCTION FENCE PER I.D.O.T. 664001-02 WITH GATES WHERE SHOWN. ALL GATES TO BE CHAIN-LINK WITH (2) 10 FT. WIDE X 8' HIGH PANELS (20 FT. WIDE OPENINGS) AND HEAVY DUTY HENGEES. GATES SHALL BE FURNISHED WITH LOCKS AND CHAINS. (4) KEYS FOR GATE LOCKS SHALL BE FURNISHED TO THE VILLAGE OF WINFIELD FOR ACCESS BY PUBLIC WORKS, POLICE, FIRE AND OTHER EMERGENCY VEHICLES. ERECTION OF FENCE SHALL BE COMPLETED AS DIRECTED BY THE ENGINEER AND BE MAINTAINED THROUGHOUT THE COURSE OF THE PROJECT BY THE CONTRACTOR. ANY TEMPORARY MODIFICATIONS IN FENCE PLACEMENT DURING THE PROJECT SHALL BE COORDINATED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER AND THE U.P.R.R. THE CONTRACTOR SHALL INSTALL THE FENCE IN SUCH A MANNER THAT IT WILL CAUSE MINIMAL DISRUPTION WITH EXISTING UTILITIES AND LANDSCAPING. ANY REQUIRED TREE TRIMMING, RELOCATION OF PERMANENT SIGNS OR OTHER SUCH OBSTACLES SHALL BE INCIDENTAL TO THE COST OF TEMPORARY FENCE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAFETY WARNING SIGNS RELATED TO THE FENCE AND WORK AREA.
 - SIGNS AND WHEEL STOPS TO BE REMOVED SHALL BE STORED AT THE VILLAGE PUBLIC WORKS FOR RE-USE.

LEGEND

| | |
|--|--|
| | TEMPORARY CONSTRUCTION FENCE (SEE NOTE 6) |
| | EXISTING PAVEMENT TO BE REMOVED |
| | SOIL BORING LOCATION PER THE GEOTECHNICAL INVESTIGATION PREPARED BY PATRICK ENGINEERING, INC. LISLE, IL PROJ. NO. 20603.040, DATED JULY 2006 |
| | EXISTING TREE TO BE REMOVED |
| | CURB TO BE REMOVED SAWCUT ALL EDGES |
| | PAVEMENT SAWCUT LINE |
| | EXISTING STORM SEWER TO BE REMOVED |
| | EXISTING FENCE TO BE REMOVED |
| | EXISTING UNDERGROUND ELECTRICAL CONDUIT TO BE REMOVED (SEE ELECTRICAL PLANS) |

1/6/2009 4:11:12 PM N:\DOK\WF\WF451\SHEETS\WF451-C3-DBHO.DGN

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| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | E.J. | | | | |

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PROJECT
 PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

SHEET TITLE
 EXISTING CONDITIONS, REMOVAL AND SITE PREPARATION PLAN

| | | |
|--------|---------------|---------------|
| SCALE | PROJECT NO. | SHEET |
| 1"=20' | WF-451 | No. C3 |
| | DATE | of C11 |
| | DEC. 19, 2008 | |

JEWELL

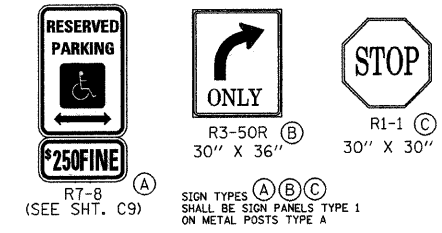
Village of Winfield

CHURCH STREET
Village of Winfield

Village of Winfield

Village of Winfield

Commuter Rail Division
of R.T.A. (Metra)



PROPOSED SIGNS

NORTH R.O.W. LINE OF UNION PACIFIC RAILROAD

100' R.O.W.

UNION

PACIFIC

NORTH R.O.W. LINE OF UNION PACIFIC RAILROAD

100' R.O.W.

RAILROAD

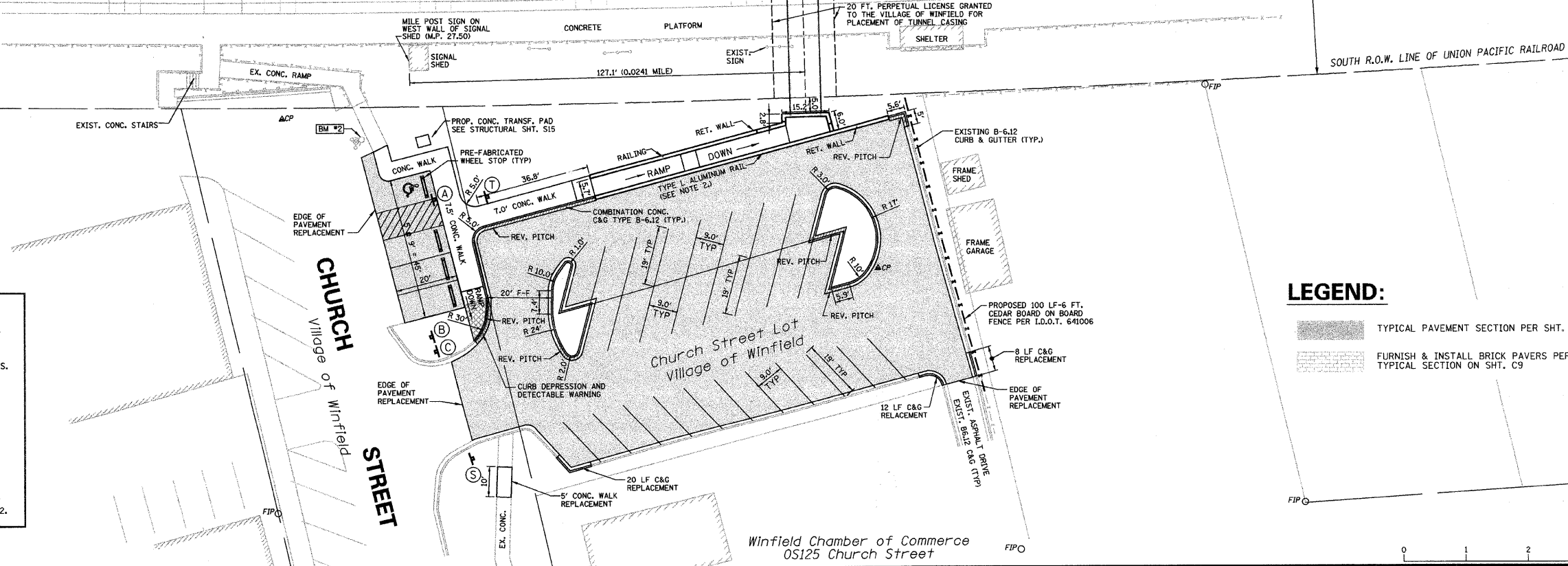
SOUTH R.O.W. LINE OF UNION PACIFIC RAILROAD

SOUTH R.O.W. LINE OF UNION PACIFIC RAILROAD



NO SKATEBOARDING SIGN APPROX. 18" X 24" MIN. SHALL BE SIGN PANEL TYPE 1 ON METAL POST TYPE A

- NOTES:**
- THIS IS NOT A BOUNDARY SURVEY. FOR RIGHT OF WAY, BOUNDARY, LOT LINES, LOT AREAS AND EASEMENT DIMENSIONS, REFER TO PRIOR BOUNDARY SURVEYS.
 - SEE STRUCTURAL SHEETS FOR DIMENSIONS OF RAMPS, RETAINING WALLS AND CONCRETE SLABS, RAILINGS, HANDRAILS, STAIRS, TUNNEL CASING AND CANOPIES.
 - UNLESS OTHERWISE SPECIFIED - ALL DIMENSIONS AND RADII ARE SHOWN TO THE BACK OF THE CURBLINE. PARKING STALL CALLOUTS ARE SHOWN TO THE FACE OF THE CURB AND STRIPING WITHIN THE PARKING BAY.
 - ALL PARKING STALL, SAFETY ISLAND, NO PARKING AREAS AND CROSSWALK STRIPING SHALL BE 4 INCH WIDE STANDARD I.D.O.T. YELLOW. DIAGONAL STRIPING SHALL BE SPACED AT 2 FT. ON CENTER.
 - ALL SIGNS SHALL MEET THE REQUIREMENTS AND STANDARDS OF THE U.S. DEPT. OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION; THE ILLINOIS ADMINISTRATIVE CODE, LATEST ADDITION; AND ALL LOCAL ORDINANCES.
 - SIGNS AND WHEELSTOPS SALVAGED PER PLAN SHT. C3 SHALL BE INSTALLED IF DETERMINED COMPLIANT WITH REMOVALS. ALSO SEE GENERAL NOTE 6, SHT. C2.



LEGEND:

- TYPICAL PAVEMENT SECTION PER SHT. C9
- FURNISH & INSTALL BRICK PAVERS PER TYPICAL SECTION ON SHT. C9



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| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | E.J. | | | | |

REMPE-SHARPE CONSULTING ENGINEERS
 IL P.D.F. LICENSE NO. 184-000895
 324 WEST STATE STREET - GENEVA, ILLINOIS 60134
 Telephone (630) 232-0827 - Fax (630) 232-1629

PROJECT
PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

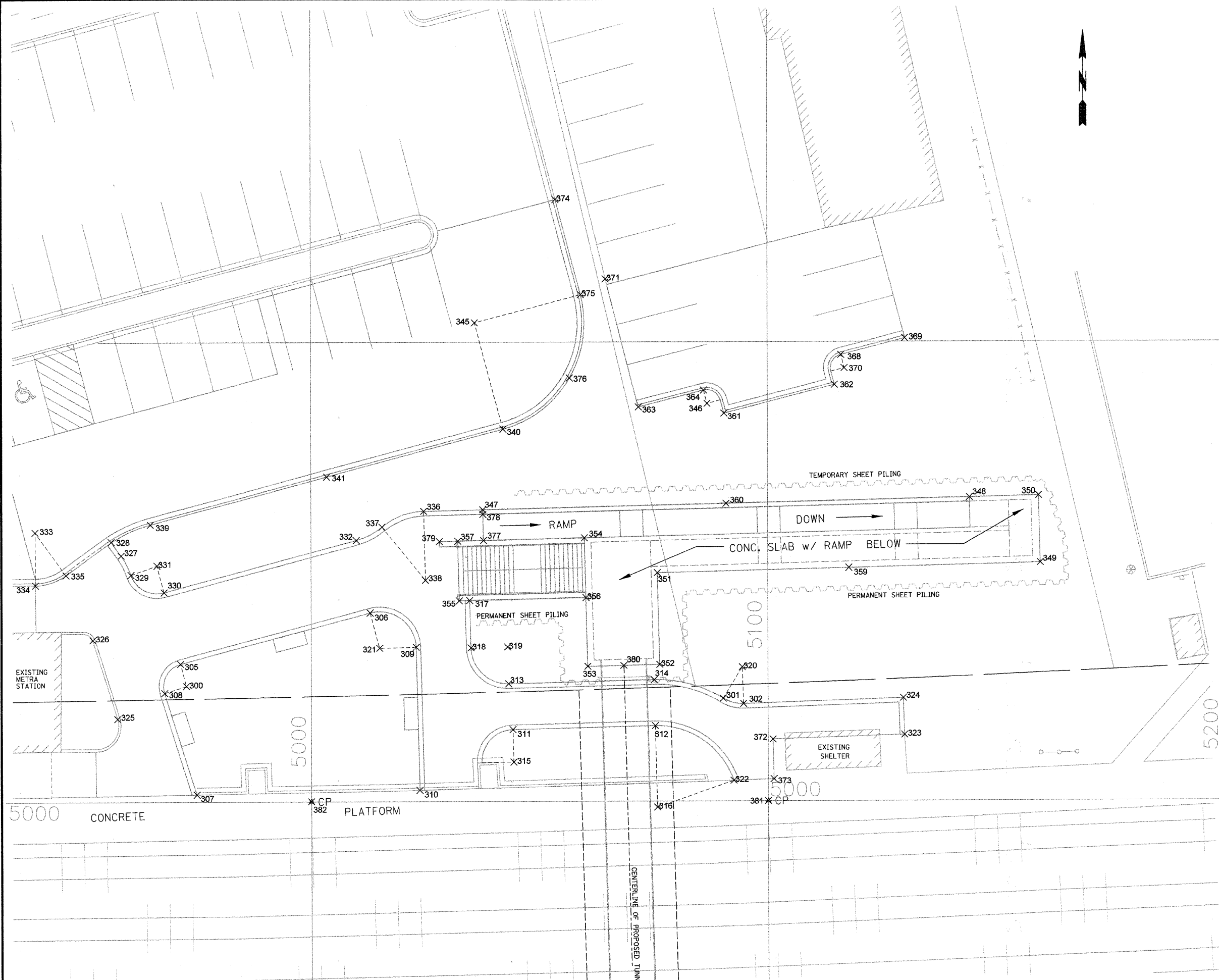
SHEET TITLE
OVERALL GEOMETRIC PLAN

| | | |
|--------|---------------|---------------|
| SCALE | PROJECT NO. | SHEET |
| 1"=20' | WF-451 | No. C4 |
| | DATE | of C11 |
| | DEC. 19, 2008 | |

12/12/2008 3:24:44 PM N:\DGN\WF\451\SHEETS\WF451-C4-GEOM.DGN

COORDINATE TABLE

| POINT NO. | NORTHING | EASTING | DESCRIPTION |
|-----------|-----------|-----------|----------------|
| 300 | 5025.1247 | 4972.6888 | |
| 301 | 5022.2961 | 5090.1857 | |
| 302 | 5021.1307 | 5094.6212 | |
| 305 | 5029.9551 | 4971.3975 | |
| 306 | 5041.0604 | 5012.9410 | |
| 307 | 5001.5127 | 4974.9287 | |
| 308 | 5023.6138 | 4967.9225 | |
| 309 | 5033.5283 | 5023.0046 | |
| 310 | 5002.3955 | 5023.7695 | |
| 311 | 5015.5772 | 5044.1566 | |
| 312 | 5016.3429 | 5075.3197 | |
| 313 | 5025.5569 | 5043.2056 | |
| 314 | 5026.3399 | 5075.0740 | |
| 315 | 5008.5793 | 5044.3285 | |
| 316 | 4998.6410 | 5075.7589 | |
| 317 | 5043.6781 | 5034.7588 | |
| 318 | 5033.3586 | 5035.0115 | |
| 319 | 5033.5545 | 5043.0091 | |
| 320 | 5029.1261 | 5094.3512 | |
| 321 | 5033.3318 | 5015.0070 | |
| 322 | 5004.4385 | 5092.4903 | |
| 323 | 5014.3160 | 5129.8500 | |
| 324 | 5022.3114 | 5129.5799 | |
| 325 | 5018.0471 | 4957.6232 | |
| 326 | 5035.1791 | 4952.1923 | |
| 327 | 5053.5683 | 4958.4472 | |
| 328 | 5056.5487 | 4956.2906 | |
| 329 | 5049.4045 | 4960.6108 | |
| 330 | 5045.5639 | 4967.8326 | |
| 331 | 5051.3604 | 4966.2831 | |
| 332 | 5056.8192 | 5009.9370 | |
| 333 | 5058.6841 | 4939.6246 | |
| 334 | 5047.1843 | 4939.6922 | |
| 335 | 5049.3674 | 4946.3661 | |
| 336 | 5063.1098 | 5024.7208 | |
| 337 | 5059.7123 | 5015.5756 | |
| 338 | 5048.1143 | 5025.0880 | |
| 339 | 5060.2891 | 4964.8342 | |
| 340 | 5080.9486 | 5042.1185 | |
| 341 | 5069.5253 | 5001.1608 | |
| 345 | 5104.1345 | 5035.9205 | |
| 346 | 5070.6189 | 5003.4763 | |
| 347 | 5063.4262 | 5037.6448 | STRUCTURE CNR. |
| 348 | 5066.0333 | 5144.1188 | STRUCTURE WALL |
| 349 | 5051.7351 | 5159.6342 | STRUCTURE CNR. |
| 350 | 5066.4044 | 5159.2750 | STRUCTURE CNR. |
| 351 | 5049.6830 | 5075.8260 | STRUCTURE CNR. |
| 352 | 5029.6890 | 5076.3156 | STRUCTURE CNR. |
| 353 | 5029.3035 | 5060.5710 | STRUCTURE CNR. |
| 354 | 5057.2985 | 5059.8831 | STRUCTURE CNR. |
| 355 | 5043.6222 | 5032.4739 | STRUCTURE CNR. |
| 356 | 5044.3011 | 5060.2014 | STRUCTURE CNR. |
| 357 | 5056.6196 | 5032.1555 | STRUCTURE CNR. |
| 359 | 5050.7090 | 5117.7301 | STRUCTURE WALL |
| 360 | 5064.7298 | 5090.8818 | STRUCTURE WALL |
| 361 | 5084.3626 | 5090.4461 | |
| 362 | 5090.5836 | 5114.6605 | |
| 363 | 5085.7518 | 5071.7403 | |
| 364 | 5089.4213 | 5086.0238 | |
| 368 | 5097.1353 | 5116.0498 | |
| 369 | 5100.7375 | 5130.0706 | |
| 370 | 5094.2297 | 5116.7963 | |
| 371 | 5113.6350 | 5064.5660 | |
| 372 | 5013.3430 | 5101.0430 | |
| 373 | 5004.7800 | 5101.2370 | |
| 374 | 5131.0352 | 5053.6333 | |
| 375 | 5110.2686 | 5059.1234 | |
| 376 | 5092.0936 | 5056.6815 | |
| 377 | 5056.7587 | 5037.8081 | |
| 378 | 5062.4265 | 5037.6693 | |
| 379 | 5056.5217 | 5028.1567 | |
| 380 | 5029.4700 | 5068.4665 | TUNNEL C.L. |
| 381 | 5000.0000 | 5100.0100 | CONTROL POINT |
| 382 | 5000.0000 | 5000.0000 | CONTROL POINT |



12/18/2008 1:45:50 PM N:\DGN\WF\451\SHEET\WF451-C5-COOR.DGN

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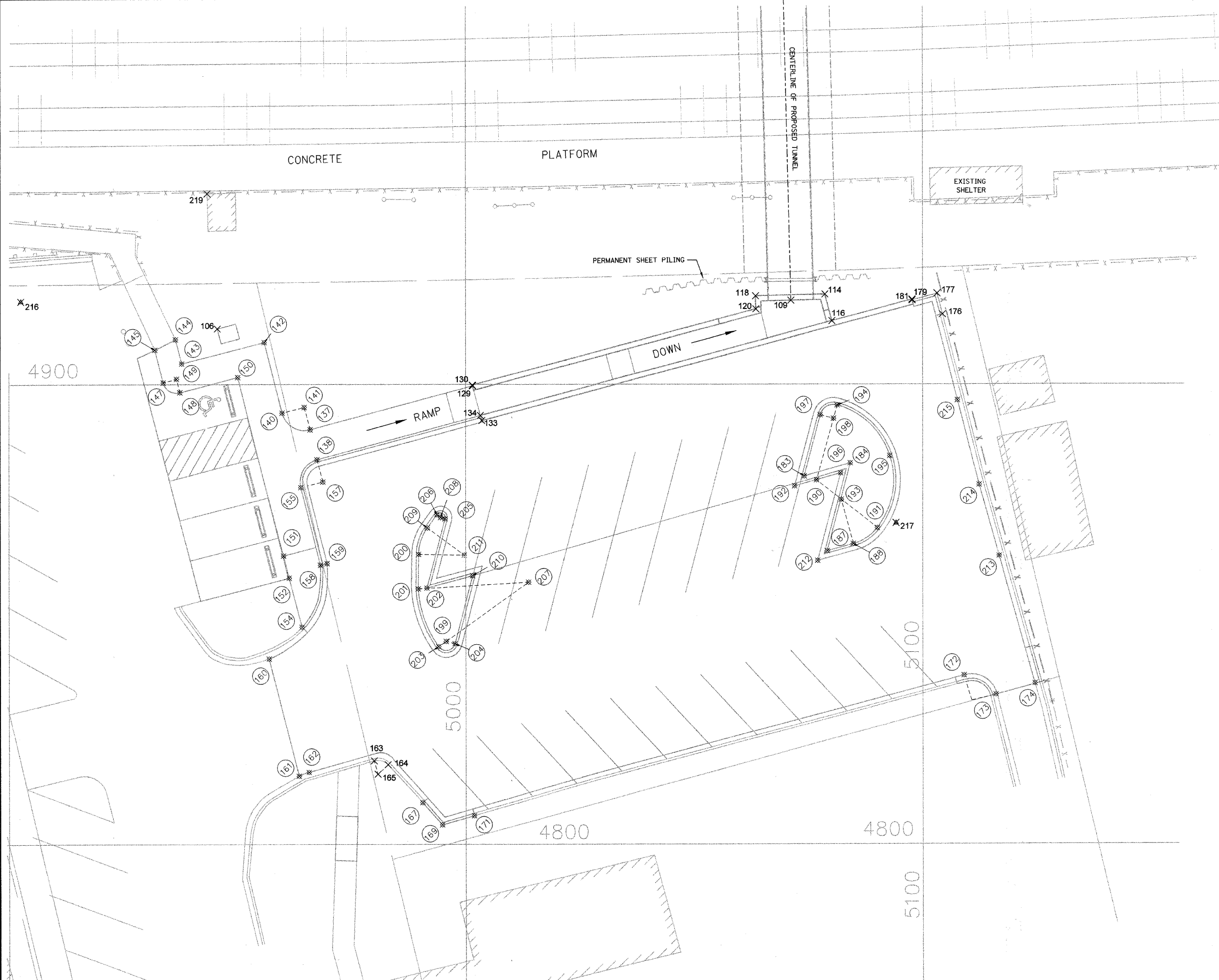
| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | E.J. | | | | |

REMPE-SHARPE
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IL P.D.F. LICENSE NO. 184-000896
324 WEST STATE STREET - GENEVA, ILLINOIS 60134
Telephone (630) 232-0827 - Fax (630) 232-1629

PROJECT
PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

SHEET TITLE
COORDINATE GEOMETRY PLAN NORTH PARKING AREA

| | | |
|----------|---------------|---------------|
| SCALE | PROJECT NO. | SHEET |
| 1" = 10' | WF-451 | No. C5 |
| | DATE | Of C11 |
| | DEC. 19, 2008 | |



| POINT NO. | NORTHING | EASTING | DESCRIPTION |
|-----------|-----------|-----------|-----------------------|
| 106 | 4912.1530 | 4946.2019 | TRANSFORMER PAD |
| 109 | 4918.2901 | 5071.1887 | TUNNEL C.L. |
| 114 | 4919.6423 | 5078.6136 | STRUCTURE CNR. |
| 116 | 4913.8190 | 5080.1738 | STRUCTURE CNR. |
| 118 | 4919.2711 | 5063.4550 | STRUCTURE CNR. |
| 120 | 4916.4384 | 5063.5244 | STRUCTURE CNR. |
| 129 | 4899.8172 | 5001.4677 | END WALK |
| 130 | 4899.6557 | 5001.5109 | STRUCTURE CNR. |
| 133 | 4892.0855 | 5003.5385 | STRUCTURE CNR. |
| 134 | 4893.2128 | 5003.2366 | BACK OF CURB |
| 137 | 4890.1348 | 4965.9637 | |
| 138 | 4883.6329 | 4967.4691 | |
| 140 | 4893.7372 | 4959.8231 | |
| 141 | 4894.9646 | 4964.6701 | |
| 142 | 4909.1522 | 4955.9196 | |
| 143 | 4904.4878 | 4937.8378 | |
| 144 | 4909.7550 | 4936.4790 | |
| 145 | 4907.4960 | 4931.9640 | |
| 147 | 4900.3499 | 4933.8074 | |
| 148 | 4898.1943 | 4937.4617 | |
| 149 | 4901.0992 | 4936.7123 | |
| 150 | 4901.4616 | 4950.1275 | |
| 151 | 4862.6699 | 4960.1179 | |
| 152 | 4857.8894 | 4961.3731 | |
| 154 | 4847.2410 | 4964.1690 | |
| 155 | 4877.5757 | 4963.9156 | |
| 157 | 4878.8031 | 4968.7626 | |
| 158 | 4860.6564 | 4968.2001 | |
| 159 | 4861.0246 | 4969.6542 | |
| 160 | 4840.2974 | 4956.9486 | |
| 161 | 4814.7299 | 4963.4971 | |
| 162 | 4815.5783 | 4965.6626 | |
| 163 | 4818.0524 | 4979.8791 | |
| 164 | 4817.2162 | 4982.9261 | |
| 165 | 4815.1749 | 4980.7277 | |
| 167 | 4808.9832 | 4990.5710 | |
| 169 | 4804.1742 | 4994.8491 | |
| 171 | 4806.1685 | 5001.8533 | |
| 172 | 4836.6480 | 5109.0400 | |
| 173 | 4832.4480 | 5115.9930 | |
| 174 | 4834.8543 | 5124.5468 | |
| 176 | 4915.2843 | 5104.3903 | |
| 177 | 4919.8081 | 5103.1786 | |
| 179 | 4918.3511 | 5097.7403 | |
| 181 | 4918.5139 | 5097.6967 | END RET. WALL |
| 183 | 4880.0166 | 5074.1112 | |
| 184 | 4882.8664 | 5084.1653 | |
| 187 | 4863.7127 | 5079.1334 | |
| 188 | 4865.2635 | 5084.8337 | |
| 190 | 4879.1599 | 5076.7895 | |
| 191 | 4868.7440 | 5090.0791 | |
| 192 | 4877.8571 | 5071.9930 | |
| 193 | 4874.9127 | 5082.2085 | |
| 194 | 4895.4299 | 5081.3052 | |
| 195 | 4884.4337 | 5092.8298 | |
| 196 | 4880.7069 | 5082.0471 | |
| 197 | 4893.3015 | 5077.6013 | |
| 198 | 4892.5392 | 5080.5029 | |
| 199 | 4844.0984 | 4995.7118 | |
| 200 | 4862.9974 | 4989.6858 | |
| 201 | 4855.5507 | 4989.6222 | |
| 202 | 4855.7447 | 4991.5339 | |
| 203 | 4842.9365 | 4994.0839 | |
| 204 | 4843.5902 | 4997.6461 | |
| 205 | 4870.7527 | 4995.4766 | |
| 206 | 4871.5985 | 4993.7033 | |
| 207 | 4857.0043 | 5013.7944 | |
| 208 | 4871.0068 | 4994.5095 | |
| 209 | 4868.7655 | 4991.6236 | |
| 210 | 4858.3896 | 5001.5341 | |
| 211 | 4862.8478 | 4999.6847 | |
| 212 | 4861.5841 | 5077.0233 | |
| 213 | 4862.6524 | 5116.7270 | |
| 214 | 4878.1797 | 5112.3595 | |
| 215 | 4896.5322 | 5107.6302 | |
| 216 | 4918.1070 | 4902.5720 | CONTROL POINT |
| 217 | 4869.8020 | 5094.1800 | CONTROL POINT |
| 218 | 4734.4290 | 4987.7220 | CUT CROSS (NOT SHOWN) |
| 219 | 4941.5760 | 4943.4310 | UPRR MILE MARKER |

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| | | | | | | | |
|--|--|---------|--------|-----|------|-----------|----|
| This drawing shall not be used nor reproduced either wholly or in part except when authorized by the engineer- Rempe-Sharp | | ACTION | NAME | | | | |
| | | Design | J.B. | | | | |
| | | Drawn | D.B.E. | | | | |
| | | Checked | E.J. | No. | Date | Revisions | By |

REMPE-SHARPE
CONSULTING ENGINEERS
IL P.D.F. LICENSE NO. 184-00896
324 WEST STATE STREET - GENEVA, ILLINOIS 60134
Telephone (630) 232-0827 - Fax (630) 232-1629

PROJECT
**PEDESTRIAN UNDERPASS
AT METRA STATION
WINFIELD, ILLINOIS**

SHEET TITLE
**COORDINATE GEOMETRY PLAN
SOUTH PARKING AREA**

| | | |
|----------|---------------|---------------|
| SCALE | PROJECT NO. | SHEET |
| 1" = 10' | WF-451 | No. C6 |
| | DATE | Of C11 |
| | DEC. 19, 2008 | |

EROSION CONTROL NOTES:

- KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT PHONE NO. 630-584-7961
- IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.
 - ALL DROP INLETS ON OR ADJACENT TO THE SITE MUST HAVE A SEDIMENT TRAPPING OR CONTAINMENT DEVICE INSTALLED DURING CONSTRUCTION ACTIVITIES.
 - STOCKPILES TO REMAIN IN PLACE FOR 30 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.
 - ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2" RAIN EVENT.
 - UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENTATION CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.
 - THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO FINAL INSPECTION.
 - A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
 - PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.
 - THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.
 - DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED.
 - IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 21 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 14th DAY AFTER WORK HAS CEASED.
 - ALL STORM SEWER STRUCTURES WITH OPEN GRATES SHALL BE TEMPORARILY COVERED WITH A FILTER FABRIC.
 - ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
 - THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENTATION CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.
 - ALL DISTURBED AREAS SHALL BE RESTORED WITH A MINIMUM OF 6" OF TOPSOIL AND SEEDING. REFER TO LANDSCAPE PLAN FOR PLANTING TYPES.
 - STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE)

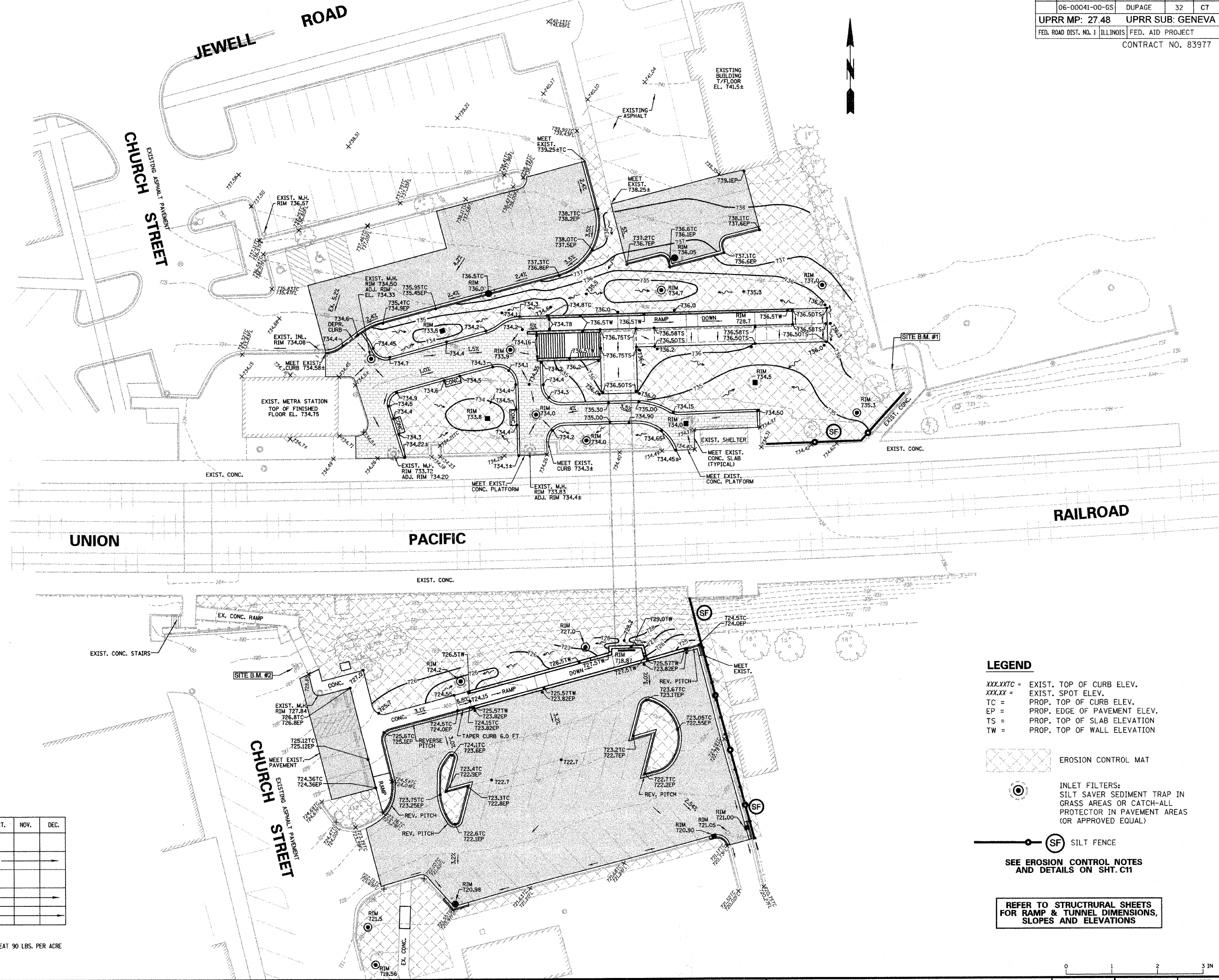
NOTE:

ALL DISTURBED AREAS ARE TO BE SEEDED PER THIS SCHEDULE

SOIL PROTECTION SCHEDULE

| STABILIZATION TYPE | JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. |
|----------------------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| PERMANENT SEEDING | | | A | | | | | A | | | | |
| DORMANT SEEDING | B | | | | | | | | | A | | |
| TEMPORARY SEEDING | | | B | | | | | | | | | |
| EROSION BLANKET/HYDROMULCH | B | | | | | | | B | | | | |
| MULCHING | C | | | | | | | | | | | |

- A CLASS I I.D.O.T. SEEDING
 B PERENNIAL RYE 25 LBS. PER ACRE / OATS 90 LBS. PER ACRE / CEREAL RYE 90 LBS PER ACRE OR WHEAT 90 LBS. PER ACRE
 C MULCH 2 TONS PER ACRE



- LEGEND**
- xxx.xxTC = EXIST. TOP OF CURB ELEV.
 - xxx.xx = EXIST. SPOT ELEV.
 - TC = PROP. TOP OF CURB ELEV.
 - EP = PROP. EDGE OF PAVEMENT ELEV.
 - TS = PROP. TOP OF SLAB ELEVATION
 - TW = PROP. TOP OF WALL ELEVATION

- EROSION CONTROL MAT
 - INLET FILTERS: SILT SAVER SEDIMENT TRAP IN GRASS AREAS OR CATCH-ALL PROTECTOR IN PAVEMENT AREAS (OR APPROVED EQUAL)
 - SILT FENCE
- SEE EROSION CONTROL NOTES AND DETAILS ON SHT. C11

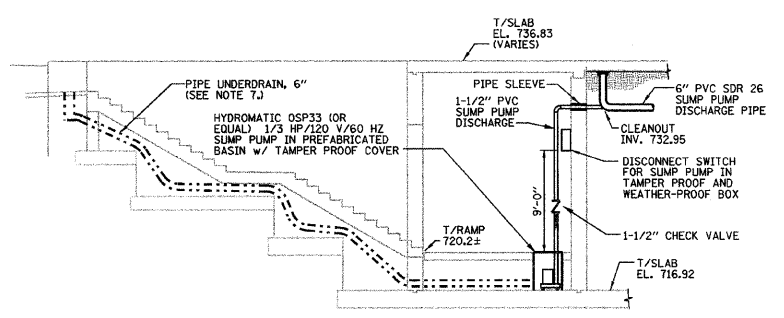
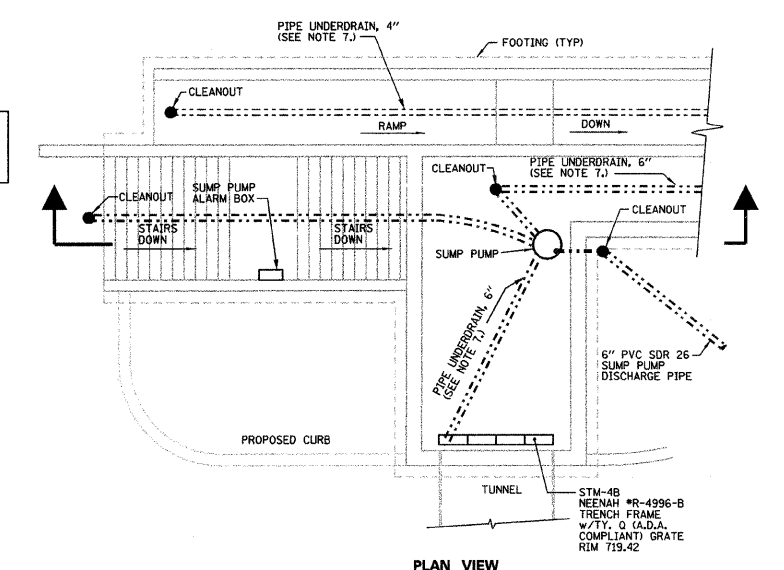
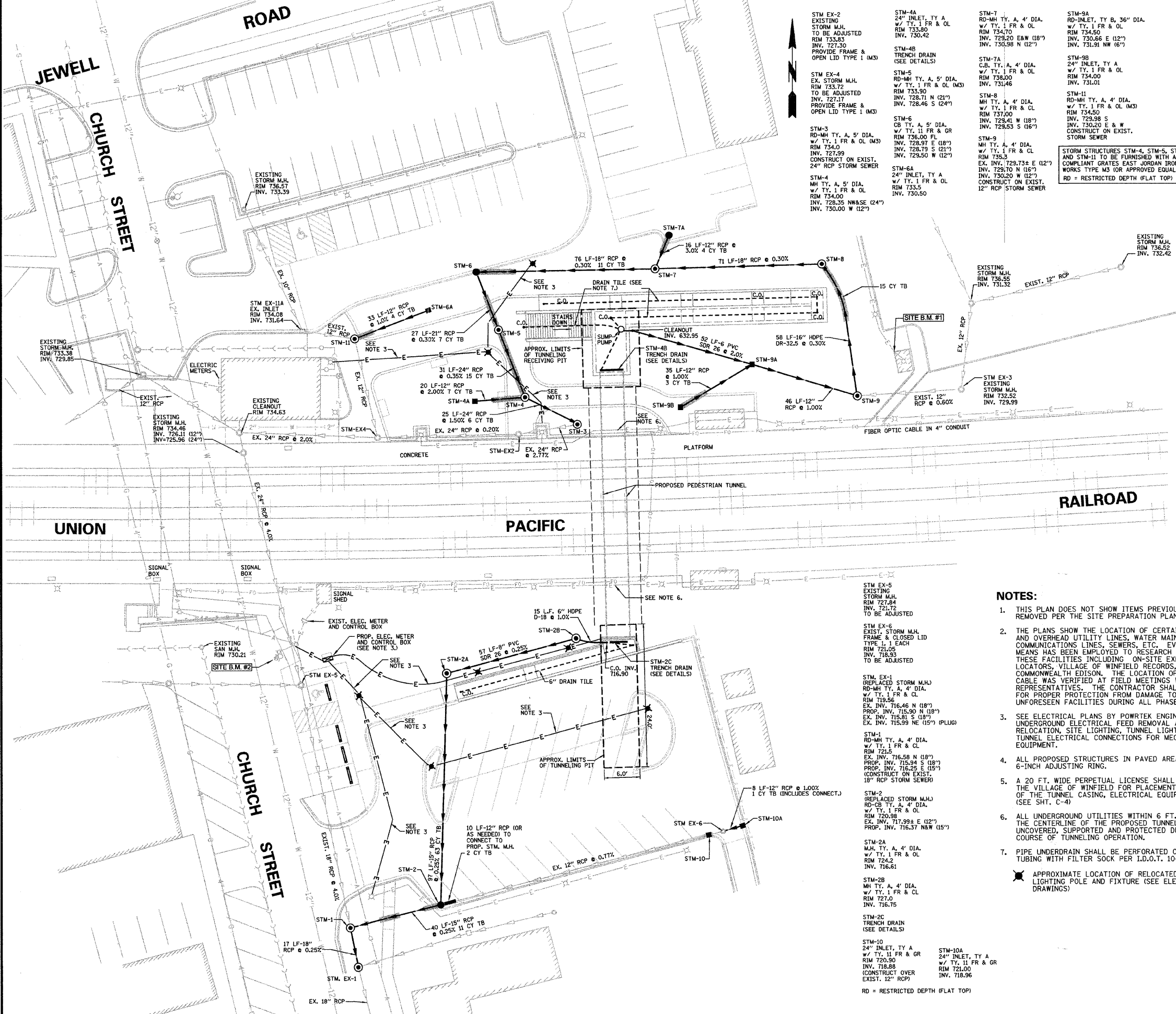
REFER TO STRUCTURAL SHEETS FOR RAMP & TUNNEL DIMENSIONS, SLOPES AND ELEVATIONS



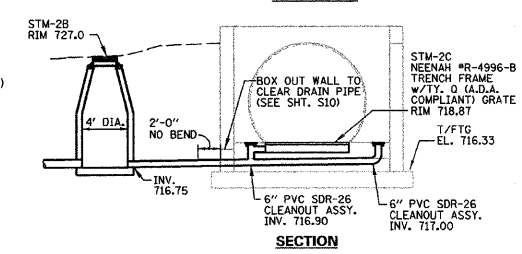
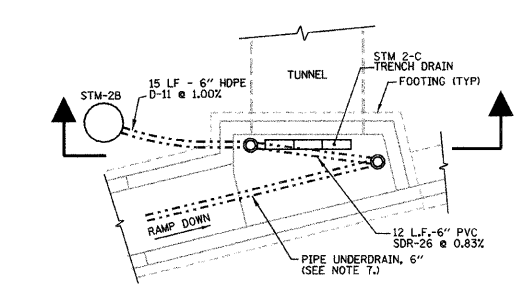
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| | | | | | | | | | | | | | | | | | | | |
|--|---------|--------|-----|------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| This drawing shall not be used nor reproduced either wholly or in part except when authorized by the engineer - Rempe-Sharpe | ACTION | NAME | | | | | | | | | | | | | | | | | |
| | Design | J.B. | | | | | | | | | | | | | | | | | |
| | Drawn | D.B.E. | | | | | | | | | | | | | | | | | |
| | Checked | E.J. | No. | Date | Revisions | | | | | | | | | | | | | | |

| | | | | | |
|---|--|--|--------|-------------|-----------------------------|
| <p>REMPE-SHARPE CONSULTING ENGINEERS IL P.D.F. LICENSE NO. 184-000895 824 WEST STATE STREET - GENEVA, ILLINOIS 60134 Telephone (630) 232-0827 - Fax (630) 232-1629</p> | PROJECT | SHEET TITLE | SCALE | PROJECT NO. | SHEET |
| | PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS | GRADING, DRAINAGE AND EROSION CONTROL PLAN | 1"=20' | WF-451 | No. C7 Of C11 |



SUMP PUMP LAYOUT
SCALE: 1/8" = 1'-0"



SOUTH RAMP TRENCH DRAIN (STM-2C)
SCALE: 1/8" = 1'-0"

- NOTES:**
- THIS PLAN DOES NOT SHOW ITEMS PREVIOUSLY REMOVED PER THE SITE PREPARATION PLAN (SHT. C3)
 - THE PLANS SHOW THE LOCATION OF CERTAIN UNDERGROUND AND OVERHEAD UTILITY LINES, WATER MAINS, GAS MAINS, COMMUNICATIONS LINES, SEWERS, ETC. EVERY POSSIBLE MEANS HAS BEEN EMPLOYED TO RESEARCH AND FIELD LOCATE THESE FACILITIES INCLUDING ON-SITE EXPLORATION, J.U.L.I.E. LOCATORS, VILLAGE OF WINFIELD RECORDS, NICOR, AT&T AND COMMONWEALTH EDISON. THE LOCATION OF THE FIBER OPTIC CABLE WAS VERIFIED AT FIELD MEETINGS WITH SPRINT CABLE REPRESENTATIVES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PROTECTION FROM DAMAGE TO THESE AND ANY UNFORESEEN FACILITIES DURING ALL PHASES OF CONSTRUCTION.
 - SEE ELECTRICAL PLANS BY POWRTE ENGINEERING FOR UNDERGROUND ELECTRICAL FEED REMOVAL AND RELOCATION, SITE LIGHTING, TUNNEL LIGHTING AND TUNNEL ELECTRICAL CONNECTIONS FOR MECHANICAL EQUIPMENT.
 - ALL PROPOSED STRUCTURES IN PAVED AREAS TO HAVE 6-INCH ADJUSTING RING.
 - A 20 FT. WIDE PERPETUAL LICENSE SHALL BE GRANTED TO THE VILLAGE OF WINFIELD FOR PLACEMENT AND MAINTENANCE OF THE TUNNEL CASING, ELECTRICAL EQUIPMENT AND LIGHTING (SEE SHT. C-4)
 - ALL UNDERGROUND UTILITIES WITHIN 6 FT. EACH SIDE OF THE CENTERLINE OF THE PROPOSED TUNNEL SHALL BE UNCOVERED, SUPPORTED AND PROTECTED DURING THE COURSE OF TUNNELING OPERATION.
 - PIPE UNDERDRAIN SHALL BE PERFORATED CORRUGATED POLYETHYLENE TUBING WITH FILTER SOCK PER I.D.O.T. 1040.04 (SEE STRUCTURAL SHEETS)
- APPROXIMATE LOCATION OF RELOCATED SITE LIGHTING POLE AND FIXTURE (SEE ELECTRICAL DRAWINGS)

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| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | E.J. | | | | |

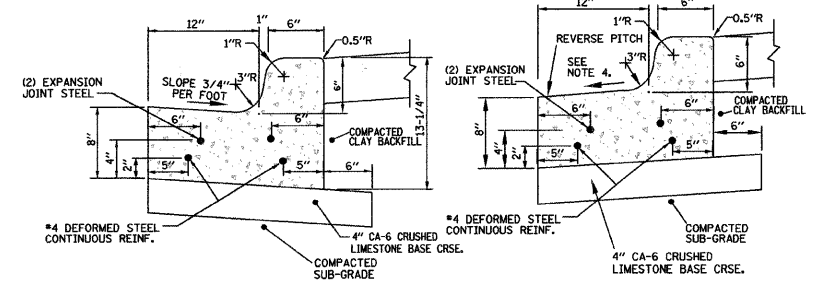
REMPE-SHARPE
CONSULTING ENGINEERS
ILL. P.D.F. LICENSE NO. 184-000895
324 WEST STATE STREET - GENEVA, ILLINOIS 60134
Telephone (630) 232-0827 - Fax (630) 232-1629

PROJECT
**PEDESTRIAN UNDERPASS
AT METRA STATION
WINFIELD, ILLINOIS**

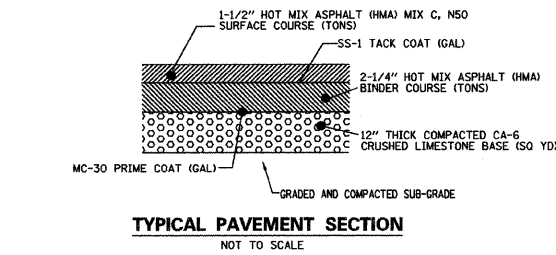
SHEET TITLE
OVERALL UTILITY PLAN

| | | |
|--------|---------------|---------------|
| SCALE | PROJECT NO. | SHEET |
| 1"=20' | WF-451 | No. C8 |
| | DATE | Of C11 |
| | DEC. 19, 2008 | |

12/18/2008 8:08:52 AM N:\DRAWING\WF451\SHEETS\WF451-C8-UTIL.DGN



- STANDARD B-6.12 CURB AND GUTTER**
- REVERSE PITCH B-6.12 CURB AND GUTTER**
- NOTES:**
- CONCRETE MATERIAL, CURING AND PROTECTION FOR ALL CURB SHALL MEET THE REQUIREMENTS ARTICLE 1020, 1021, 1022 AND 1023 OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (SSRBC), LATEST EDITION. MEMBRANE CURING AND CONCRETE SEALING SHALL BE ACCOMPLISHED WITH W.R. MEADOWS VOCOMP-20 CURB AND SEAL OR APPROVED EQUAL. IF THE FORECAST INDICATES TEMPERATURES BELOW 45°, PROTECTION METHODS SHALL BE INSTALLED IN ACCORDANCE WITH SSRBC AND SHALL BE APPROVED BY THE CITY.
 - CONTRACTION JOINTS, TO BE PROVIDED AT 10 FT. (MIN.) ON CENTERS AND SHALL BE SAW CUT TO A MINIMUM DEPTH OF 2 INCHES FROM FRONT TO BACK WITHIN 24 HOURS OF CONCRETE PLACEMENT.
 - EXPANSION JOINTS SHALL BE A FORMED WITH A 3/4" THICK PREFORMED EXPANSION JOINT FILLER CONFORMING TO THE EXACT CROSS SECTION OF THE CONCRETE CURB AND GUTTER SHALL BE PLACED AT 100 FOOT (MIN.) INTERVALS, AT P.C.'S AND P.T.'S AND AT THE END OF EACH POUR. TWO NO. 6 SMOOTH DOWEL RODS, 18 INCHES IN LENGTH, AND PROPERLY GREASED, SHALL BE INSTALLED AT EACH OF THESE EXPANSION JOINTS. CUTS INTO THE EXISTING CURB SHALL BE FULL DEPTH WITH FULL EXPANSION JOINTS PER DETAILS.
 - IF THE PAVEMENT SLOPES AWAY FROM THE CURB, THEN THE SLOPE OF THE GUTTER FLAG SHALL MATCH THE PAVEMENT SLOPE. (REVERSE PITCH)
 - CURB TO BE DEPRESSED AT A.D.A. SIDEWALK RAMPS; THE 1 1/2" RISE SHALL BE REDUCED TO 1/2" WHEN CURB IS PLACED ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED.
 - ALL CURBS SHALL HAVE A LIGHT TRANSVERSE BROOM FINISH.



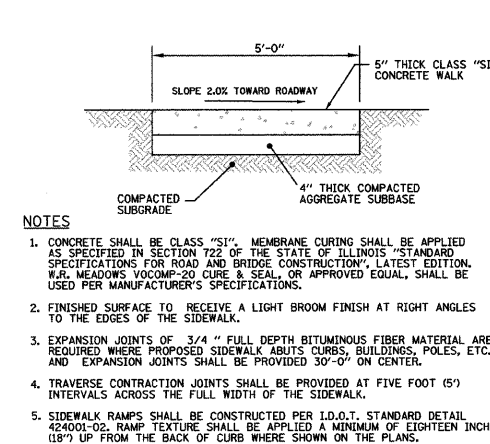
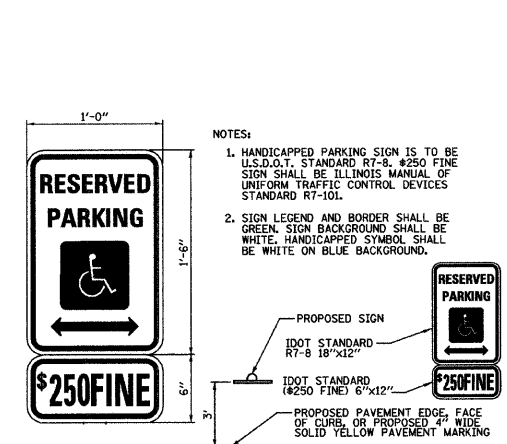
TYPICAL PAVEMENT SECTION
NOT TO SCALE

HOT MIX ASPHALT MIXTURE REQUIREMENT

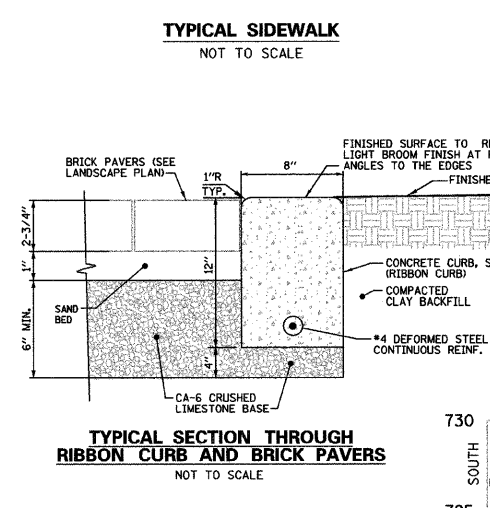
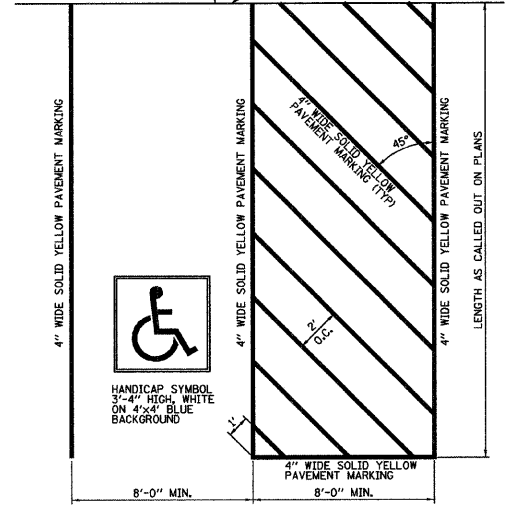
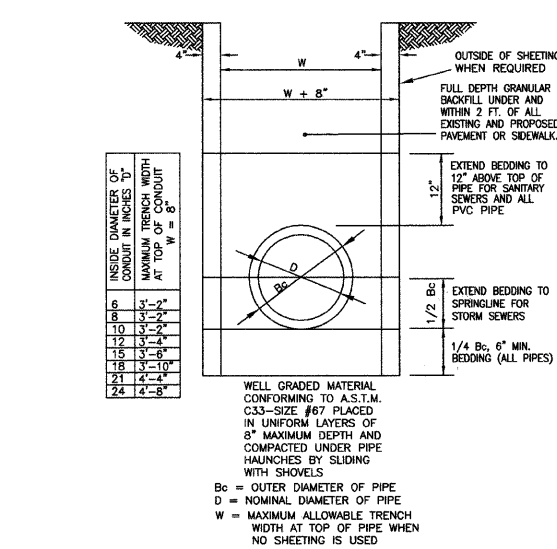
| MIXTURE TYPE | AC TYPE | VOIDS |
|--|-----------|-------------|
| DRIVEWAYS, AISLES & PARKING AREAS | | |
| HMA SURFACE COURSE, MIX C, N50 (119.5 mm) 1-1/2" | PG 64-22 | 4% @ 50 GYR |
| HMA BASE COURSE, (HMA BINDER 1L-19 mm) 2-1/4" | PG 64-22* | 4% @ 50 GYR |

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/50-YD³
*WHEN RAP EXCEEDS 20%, THE ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

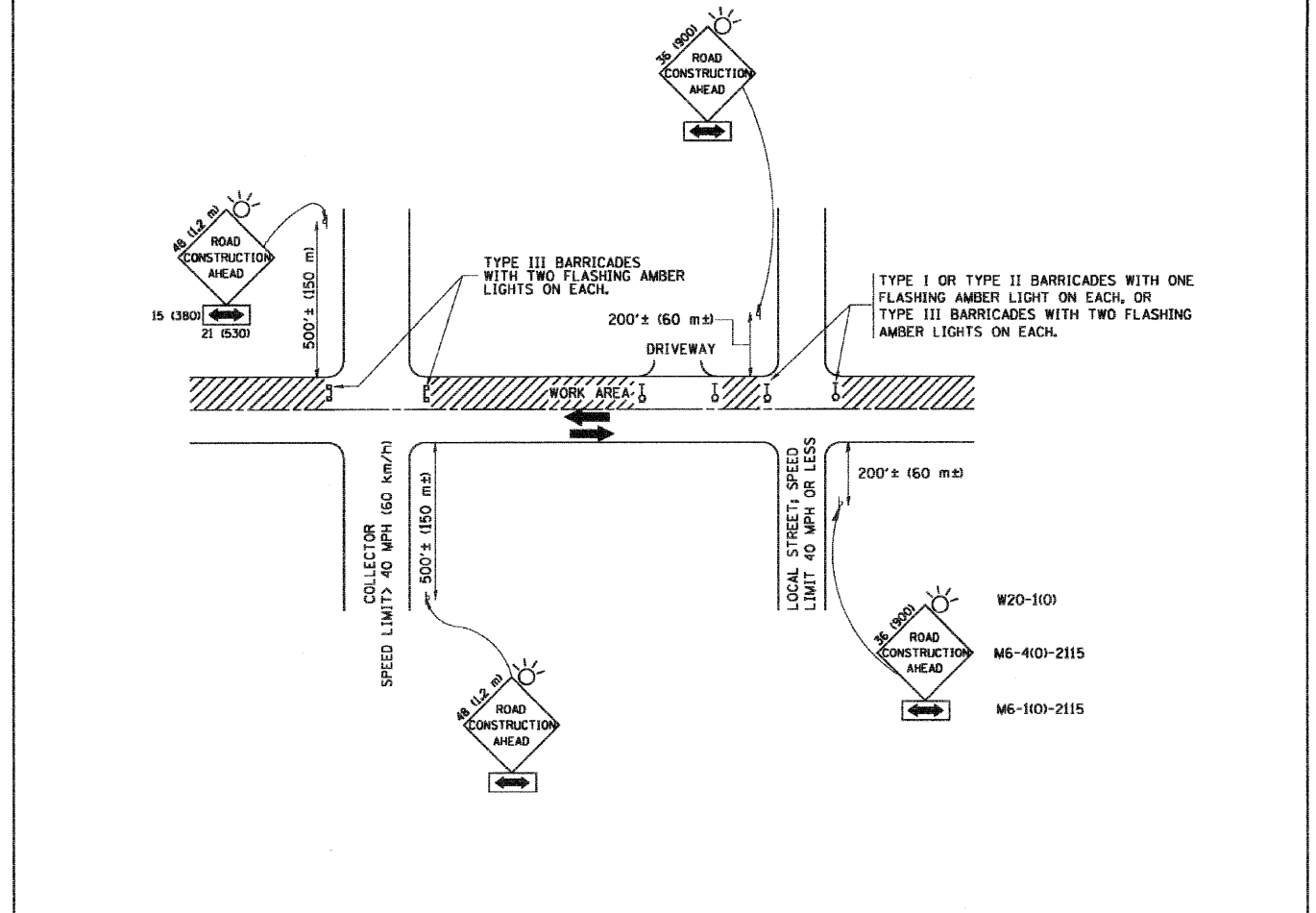
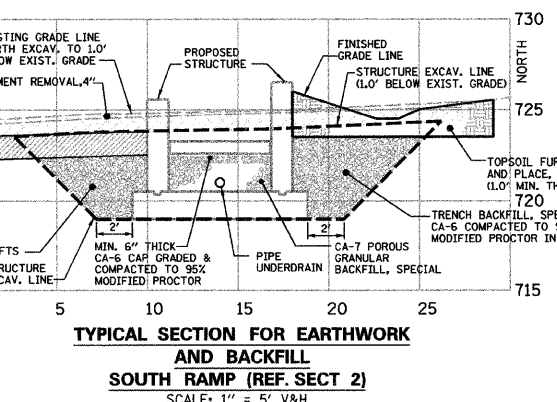
PARKING AREA CURB & GUTTER DETAILS
NOT TO SCALE



- NOTES:**
- HANDICAPPED PARKING SIGN IS TO BE U.S.D.O.T. STANDARD R7-8. #250 FINE SIGN SHALL BE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES STANDARD R7-101.
 - SIGN LEGEND AND BORDER SHALL BE GREEN. SIGN BACKGROUND SHALL BE WHITE. HANDICAPPED SYMBOL SHALL BE WHITE ON BLUE BACKGROUND.



TYPICAL SEWER TRENCH SECTION
NOT TO SCALE



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

- NOTES:**
- FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
 - SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER.
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**
 - USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
 - ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
 - THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

REVISIONS

| NAME | DATE |
|--------------|----------|
| L.H.A. | 6/89 |
| T. RAMMACHER | 09/08/94 |
| J. OBERLE | 10/18/95 |
| A. HOUSEH | 03/06/96 |
| A. HOUSEH | 10/15/96 |
| T. RAMMACHER | 01/06/00 |

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION
FOR
SIDE ROADS, INTERSECTIONS, AND
DRIVEWAYS

SCALE: NONE DRAWN BY: _____ CHECKED BY: _____

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| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | E.J. | | | | |

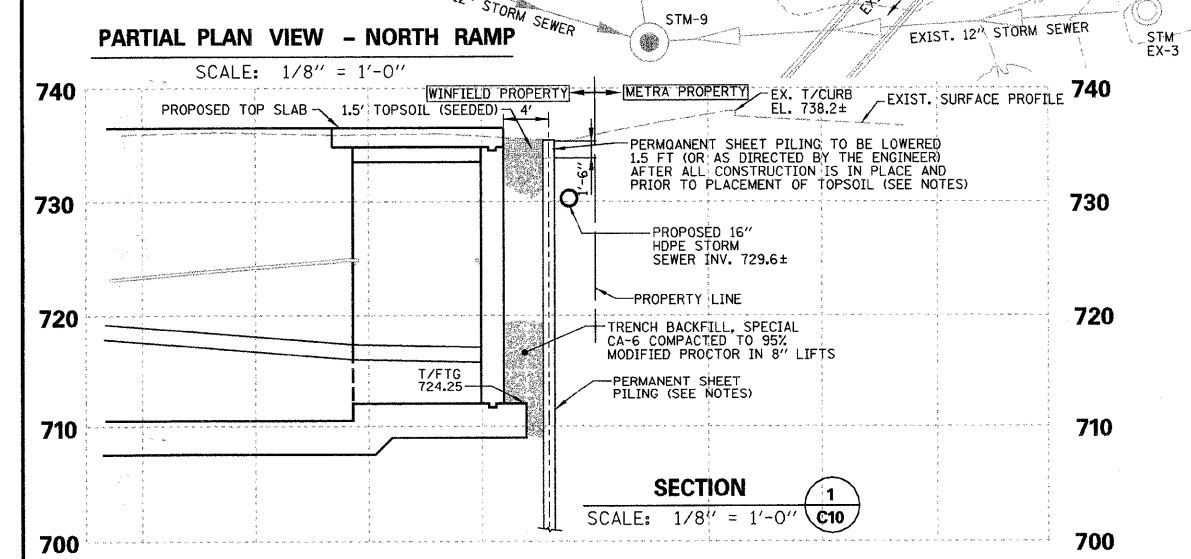
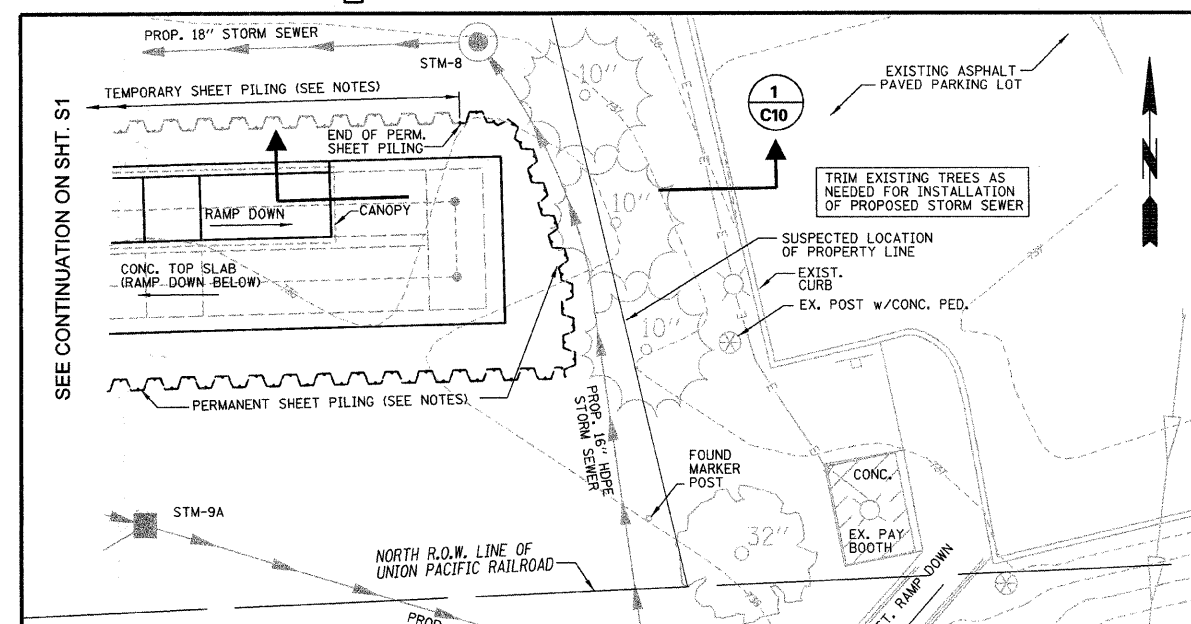
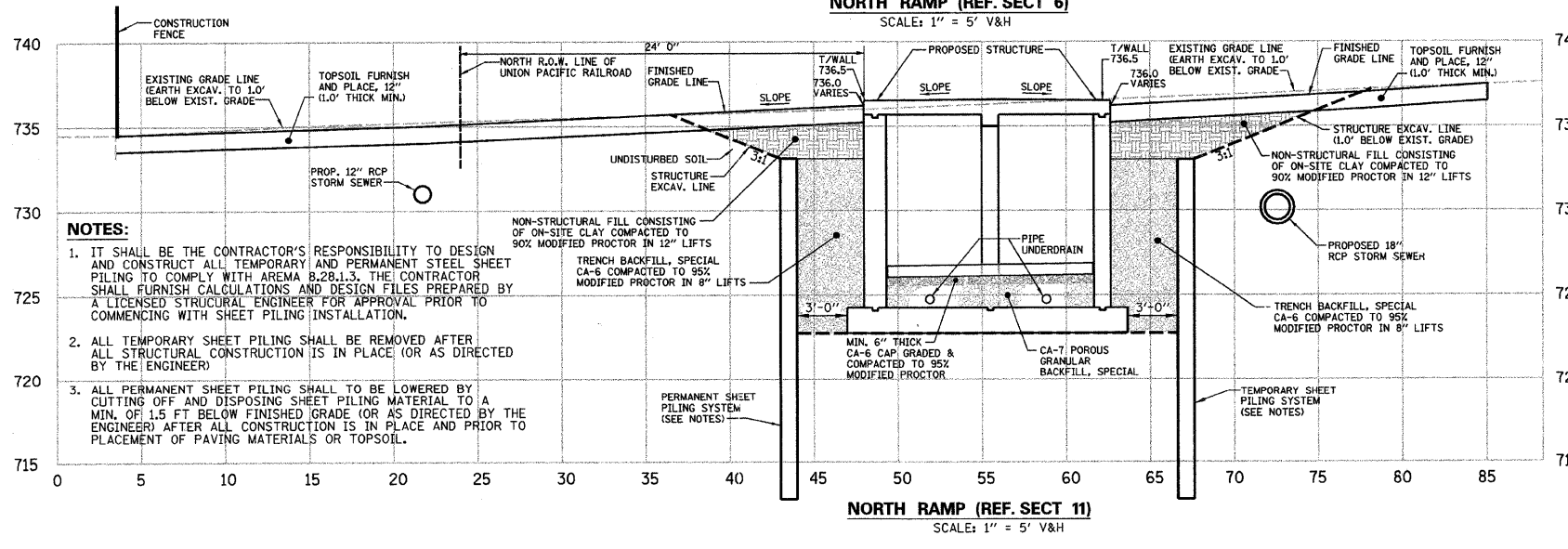
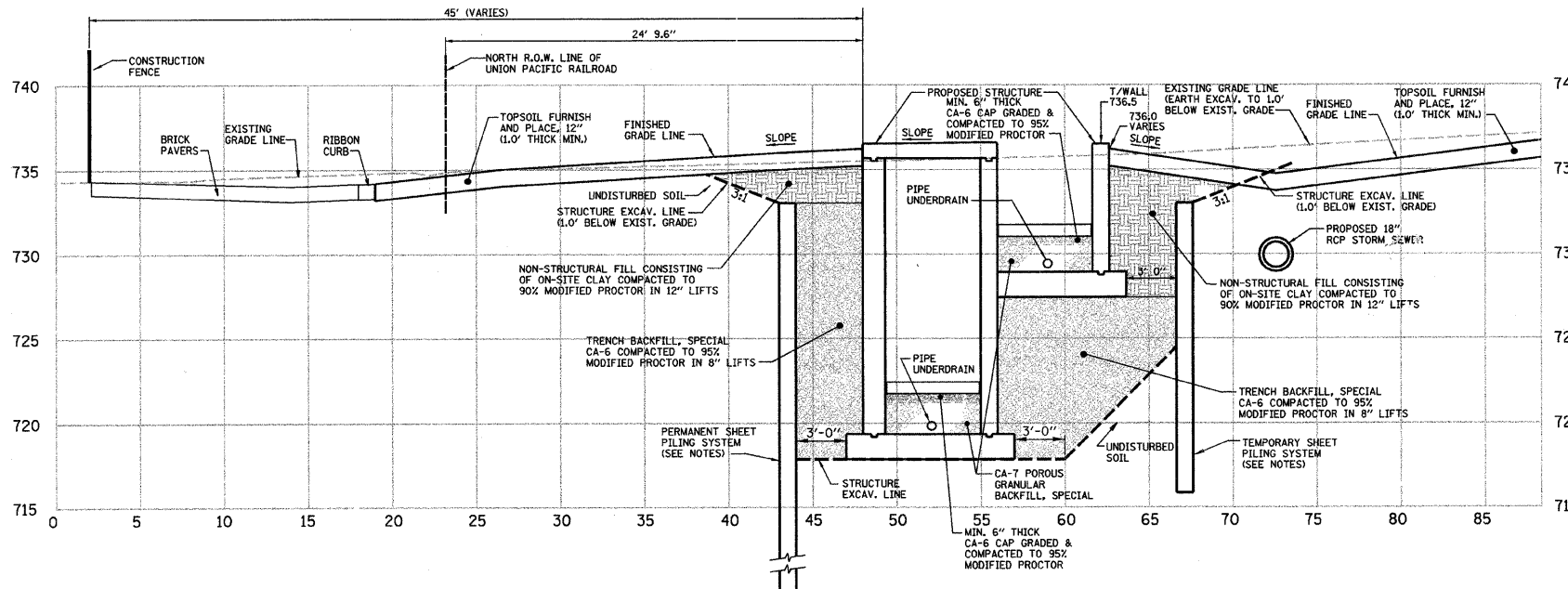
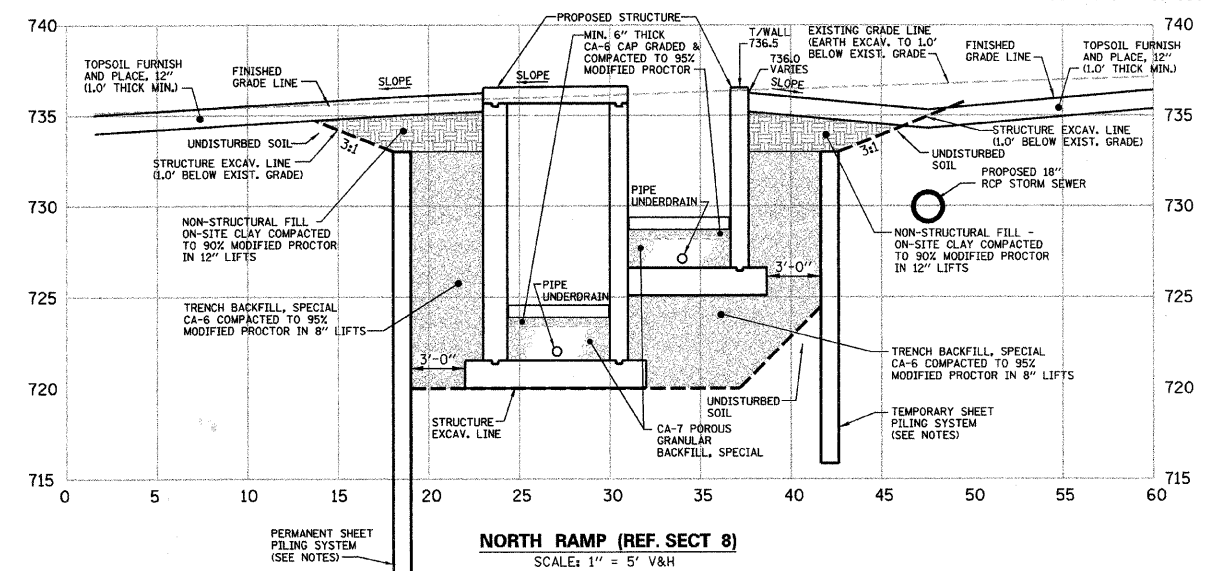
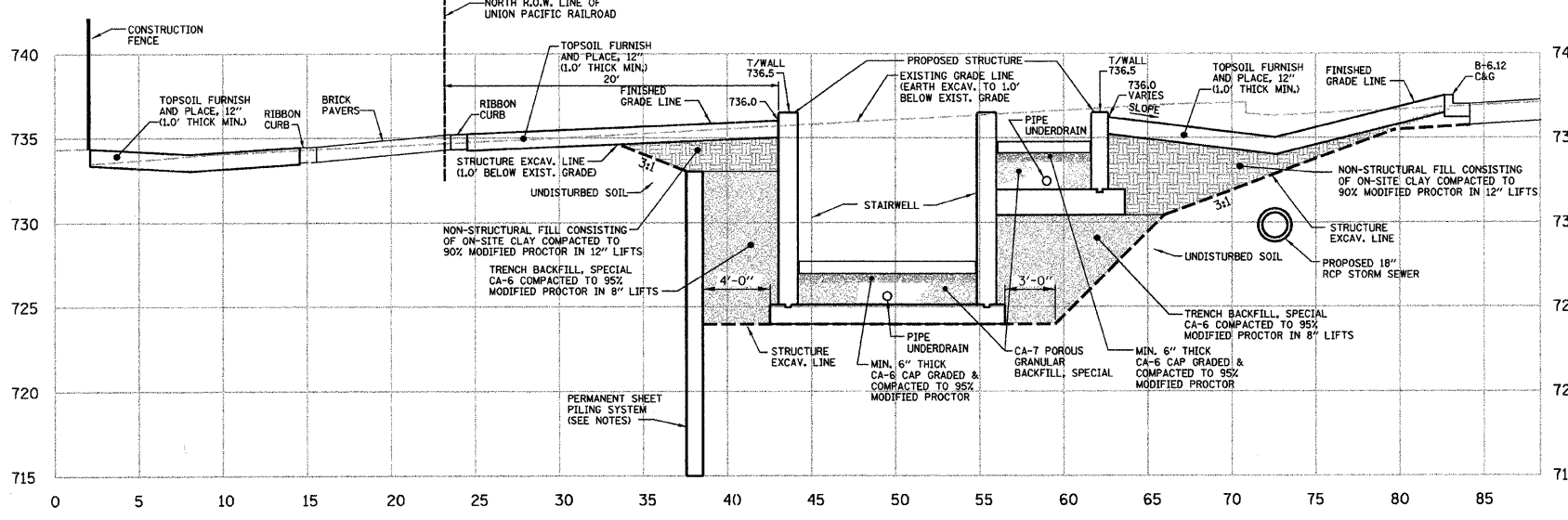
REMPE-SHARPE
CONSULTING ENGINEERS
IL P.D.F. LICENSE NO. 184-000895
324 WEST STATE STREET - GENEVA, ILLINOIS 60134
Telephone (839) 232-0827 - Fax (839) 232-1629

PROJECT: PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

SHEET TITLE: SITE CONSTRUCTION DETAILS

| SCALE | PROJECT NO. | SHEET |
|-------|---------------|--------|
| NONE | WF-451 | No. C9 |
| | DATE | Of C11 |
| | DEC. 19, 2008 | |

2/10/2009 9:27:44 AM N:\DGN\WF\451\SHEETS\WF451-C9-DET11.DGN



- NOTES:**
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND CONSTRUCT ALL TEMPORARY AND PERMANENT STEEL SHEET PILING TO COMPLY WITH AREMA 8.28.1.3. THE CONTRACTOR SHALL FURNISH CALCULATIONS AND DESIGN FILES PREPARED BY A LICENSED STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO COMMENCING WITH SHEET PILING INSTALLATION.
 - ALL TEMPORARY SHEET PILING SHALL BE REMOVED AFTER ALL STRUCTURAL CONSTRUCTION IS IN PLACE (OR AS DIRECTED BY THE ENGINEER).
 - ALL PERMANENT SHEET PILING SHALL BE LOWERED BY CUTTING OFF AND DISPOSING SHEET PILING MATERIAL TO A MIN. OF 1.5 FT BELOW FINISHED GRADE (OR AS DIRECTED BY THE ENGINEER) AFTER ALL CONSTRUCTION IS IN PLACE AND PRIOR TO PLACEMENT OF PAVING MATERIALS OR TOPSOIL.

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| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | E.J. | | | | |

REMPE-SHARPE
 CONSULTING ENGINEERS
 IL P.D.F. LICENSE NO. 184-000895
 324 WEST STATE STREET - GENEVA, ILLINOIS 60134
 Telephone (630) 232-0827 - Fax (630) 232-1629

PROJECT
 PEDESTRIAN UNDERPASS
 AT METRA STATION
 WINFIELD, ILLINOIS

SHEET TITLE
 NORTH RAMP FULL SECTIONS

| SCALE | PROJECT NO. | SHEET |
|-------|---------------|----------------|
| NOTED | WF-451 | No. C10 |
| | DATE | Of C11 |
| | DEC. 19, 2008 | |

KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT PHONE NO. 630-584-7901

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY AND PERMANENT EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER N.P.D.E.S.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS REQUIRED OR AS DIRECTED BY THE ENGINEER/OWNER'S MAINTENANCE STAFF OR K-DSWCD ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER/OWNER'S MAINTENANCE STAFF OR K-DSWCD AND AS SHOWN IN THE ENGINEERING PLANS, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER/OWNER'S MAINTENANCE STAFF OR K-DSWCD WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER/OWNER'S MAINTENANCE STAFF OR K-DSWCD AND AS SHOWN IN THE PLANS.

THIS PLAN SHALL BE FOLLOWED FOR ALL THE OWNER'S SITE IMPROVEMENTS. AN EROSION CONTROL PLAN HAS BEEN PREPARED FOR THE PROJECT AND IS PART OF THE APPROVED ENGINEERING PLANS. THE CONTRACTOR SHALL HAVE A COPY OF THE APPROVED PLANS INCLUDING THE EROSION CONTROL PLAN AND A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AT ALL TIMES. THE DETAILS INCLUDED IN THIS STORM WATER POLLUTION PREVENTION PLAN ARE INTENDED TO SUPPLEMENT THE DETAILS PROVIDED IN THE APPROVED PLANS AND PROVIDE RECOMMENDATION ALTERNATIVES THAT MAY BE USED TO PROVIDE EROSION AND SEDIMENTATION CONTROL AS NEEDED.

SITE DESCRIPTION OF CONSTRUCTION ACTIVITIES:

1. THE PROJECTS CONSIST OF THE CONSTRUCTION OF PARKING LOTS, CONCRETE RAMPS, STEEL ENCASED TUNNEL, IMPROVEMENTS AND RELATED UNDERGROUND UTILITIES ASSOCIATED WITH THE IMPROVEMENTS.
2. THE SITE CONSTRUCTION ACTIVITIES WILL CONSIST OF THE FOLLOWING: TOPSOIL STRIP, MASS GRADING, PAVEMENT CONSTRUCTION, INSTALLATION OF UTILITIES INCLUDING STORM SEWER, AND SOIL EROSION AND SEDIMENTATION MEASURES AS A MINIMUM.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

- CONSTRUCT STABILIZED ENTRANCES.
- INSTALL SILT FENCE AT LOCATIONS INDICATED ON THE PLANS.
- STRIP TOPSOIL FROM PROPOSED SITE.
- CUT & FILL SITE TO PROPOSED SUB-GRADE.
- PLACE AND MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING DITCH CHECKS, INLET AND PIPE PROTECTION, TEMPORARY SEEDING, ETC.
- CONSTRUCT UNDERGROUND IMPROVEMENTS, STORM SEWER, WATER MAIN, SANITARY ETC.
- COMPLETE TOPSOIL PLACEMENT AND PERMANENT EROSION CONTROL MEASURES INCLUDING TOPSOILING/SEEDING, RIP RAP EXCLOSURE BLANKET, ETC.

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 1.32 ACRES OF WHICH 0.8 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS

1. INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
2. PROJECT PLAN DOCUMENTS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEM.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

1. RUNOFF FROM THE SITES IS DIRECTED TO DETENTION BASINS. THE DETENTION BASINS DISCHARGE TO STORM SEWER AND ULTIMATELY TO THE WEST BRANCH DUPAGE RIVER.

CONTROLS - EROSION CONTROL AND SEDIMENT CONTROL:

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:
 1. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PRESERVATION OF MATURE VEGETATION AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER/OWNER'S MAINTENANCE STAFF OR K-DSWCD. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SEE SOIL PROTECTION SCHEDULE FOR RECOMMENDATIONS.

- A. AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
 - B. AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION, AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN OR DIRECTED BY THE ENGINEER.
 - C. BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODABLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDING AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.
 - D. AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE PROPERTY.
2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MULCHING AND OVER-SEEDING CAN BE COMPLETED.

SOIL PROTECTION SCHEDULE

| STABILIZATION TYPE | JAN. | FEB. | MAR. | APR. | MAY. | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|------------------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| PERMANENT SEEDING | | | | A | | | | A | | | | |
| DORMANT SEEDING | B | | | | | | | | | A | | |
| TEMPORARY SEEDING | | | B | | | | | | | | | |
| ER BLANKET/ HYDROMULCH | B | | | | | | | B | | | | |
| MULCHING | C | | | | | | | | | | | |

A- CLASS I IDOT SEEDING
 B- PERENNIAL RYE 25 LBS/ACRE, OATS 90 LBS/ACRE, CEREAL RYE 90 LBS/ACRE, OR WHEAT 90 LBS/ACRE
 C- MULCH 2 TONS/ACRE

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS OR DIRECTED BY THE ENGINEER), PARKING OF VEHICLES, OR CONSTRUCTION EQUIPMENT STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.

WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.

EARTH STOCKPILES SHALL BE TEMPORARILY SEEDING IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.

AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER/OWNER'S MAINTENANCE STAFF OR K-DSWCD:

- PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
- TEMPORARILY SEED ERODABLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
- CONSTRUCT ROADSIDE DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS.
- TEMPORARILY DIVERT WATER AROUND PROPOSED CULVERT LOCATIONS.

EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDING IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDING IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.

CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THIS SITE.

THE CONSTRUCTION MANAGER IS RESPONSIBLE FOR INSPECTING THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BIWEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE, AND IF OTHER EROSION CONTROL WORK IS NECESSARY.

SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE OWNER'S MAINTENANCE STAFF OR K-DSWCD. THE COST OF THIS MAINTENANCE SHALL BE INCIDENTAL TO THE UNIT BID PRICE FOR EROSION CONTROL ITEMS.

THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER/OWNER'S MAINTENANCE STAFF OR K-DSWCD AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCIDENTAL TO THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL ITEMS.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDING AND ESTABLISHED.

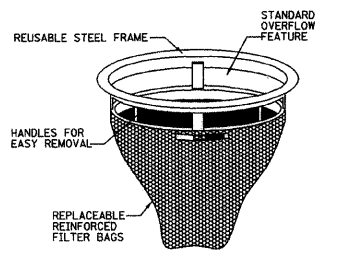
ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RE-SEEDING.

MAINTENANCE AFTER CONSTRUCTION

CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY THE OWNER. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

MISCELLANEOUS:

- TEMPORARY DITCH CHECKS SHALL BE LOCATED AT EVERY 1.5 FT. FALL/RISE IN DITCH GRADE.
- TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS/ACRE.
- SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER.



CATCH - ALL INLET PROTECTOR
 NOT TO SCALE

EROSION CONTROL NOTES:

EROSION CONTROL MEASURES SHALL MEET ALL REQUIREMENTS OF THE VILLAGE OF WINFIELD AND THE ENVIRONMENTAL PROTECTION AGENCY, N.P.D.E.S. PERMIT CONSTRUCTION SITE ACTIVITIES.

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENTATION CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.

THE KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT (K-DSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION MEETING, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES AND ONE WEEK PRIOR TO FINAL INSPECTION.

A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 21 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 14TH DAY AFTER WORK HAS CEASED.

FOR PERMANENT SEEDING AND VEGETATION, REFER TO THE LANDSCAPE PLANS.

SOIL STOCKPILES TO REMAIN IN PLACE FOR 30 DAYS SHALL RECEIVE TEMPORARY SEEDING.

EROSION CONTROL MEASURES MUST BE CONSTRUCTED AS A FIRST STEP IN GRADING AND BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER/OWNER'S MAINTENANCE STAFF OR K-DSWCD.

DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED.

ALL EXISTING STORM SEWER INLETS OR PROPOSED STORM SEWER INLETS WHICH ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED BY INLET PROTECTION BAGS IN PAVEMENT AREAS (CATCH-ALL INLET PROTECTOR OR SILT SAVER SEDIMENT TRAP) IN GRADED AREAS.

PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THE PLANS (INCLUDING BUT NOT LIMITED TO ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE K-DSWCD.

ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.

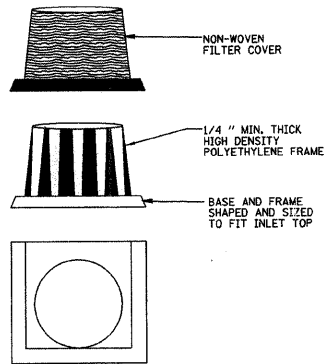
ALL AREAS ABOVE NORMAL WATER LEVEL ON THE DETENTION BASIN SIDE SLOPES SHALL BE COVERED WITH NORTH AMERICAN GREEN S75 OR APPROVED EQUIVALENT. 3:1 SIDE SLOPES AND/OR FALL/WINTER PLANTINGS REQUIRE NORTH AMERICAN GREEN S50 OR APPROVED EQUIVALENT. BOTH SHALL BE INSTALLED IMMEDIATELY UPON FINAL GRADING.

PRIORITY SHALL BE GIVEN TO THE COMPLETION AND STABILIZATION OF THE DETENTION AREAS. WORK IN THESE AREAS SHALL NOT BE PROLONGED IN ATTEMPT THAT ALL FINAL GRADING AND STABILIZATION CAN TAKE PLACE AT ONE TIME.

WINTER SHUT DOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHOULD BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

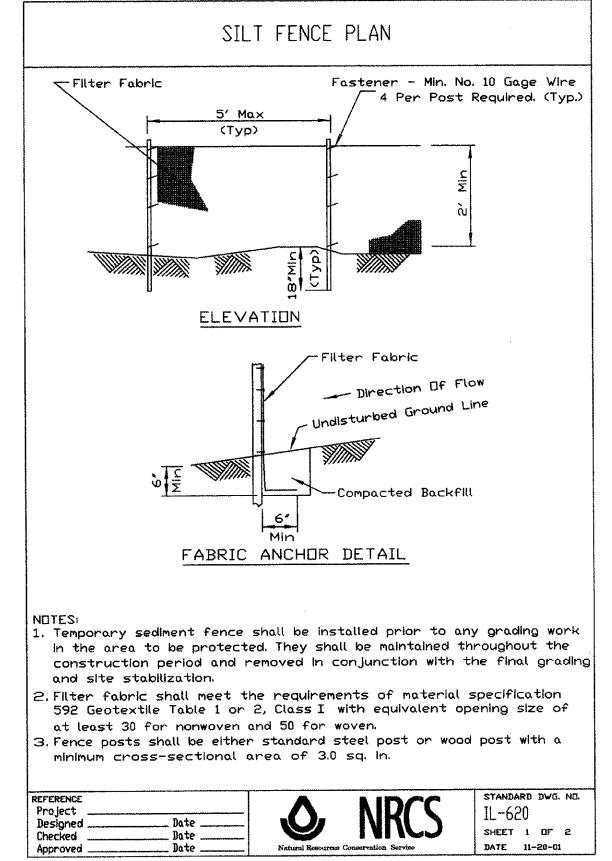
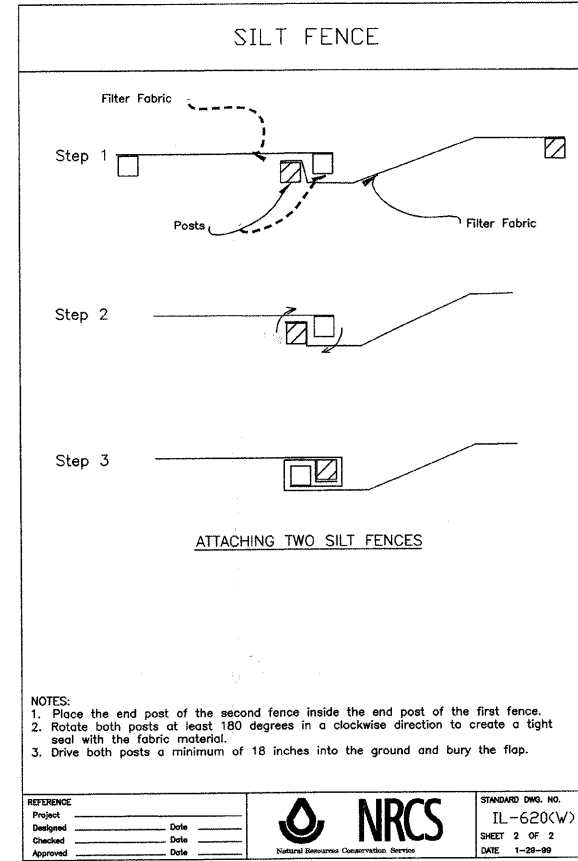


SILT SAVER SEDIMENT TRAP
 NOT TO SCALE

NOTES:

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

SILT SAVER SEDIMENT TRAP
 NOT TO SCALE



- NOTES:**
1. Temporary sediment 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.
 2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 50 for woven.
 3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

CONTRACTOR CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILLR0) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION."

GENERAL CONTRACTOR

SIGNATURE _____ TITLE _____ DATE _____

COMPANY _____

WITNESSED BY OWNER

SIGNATURE _____ TITLE _____ DATE _____

COMPANY _____

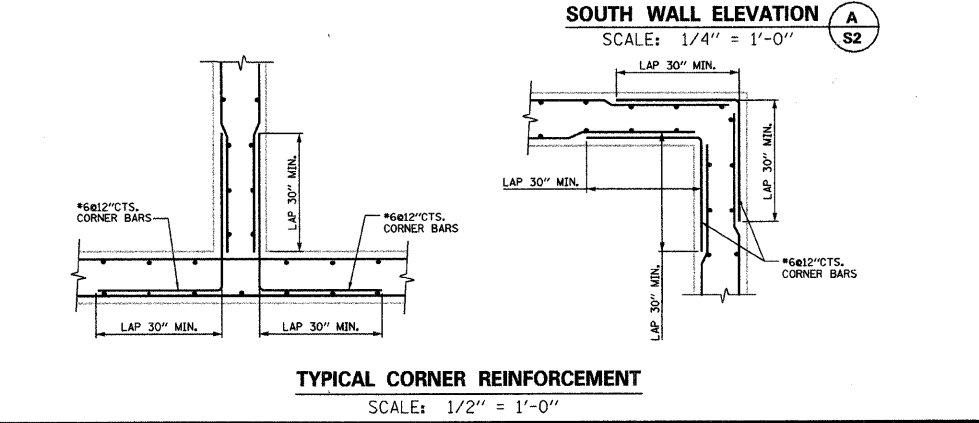
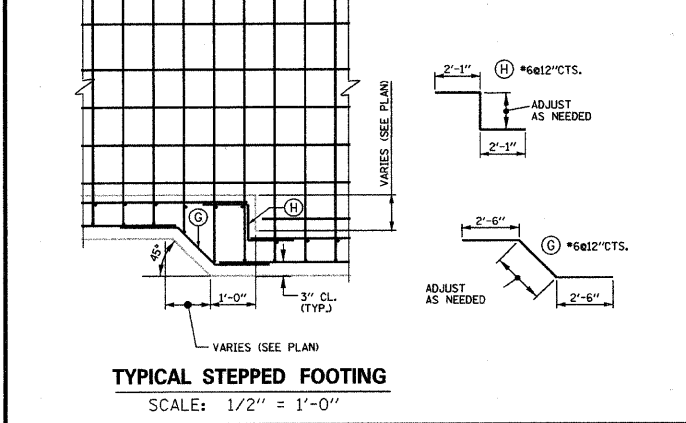
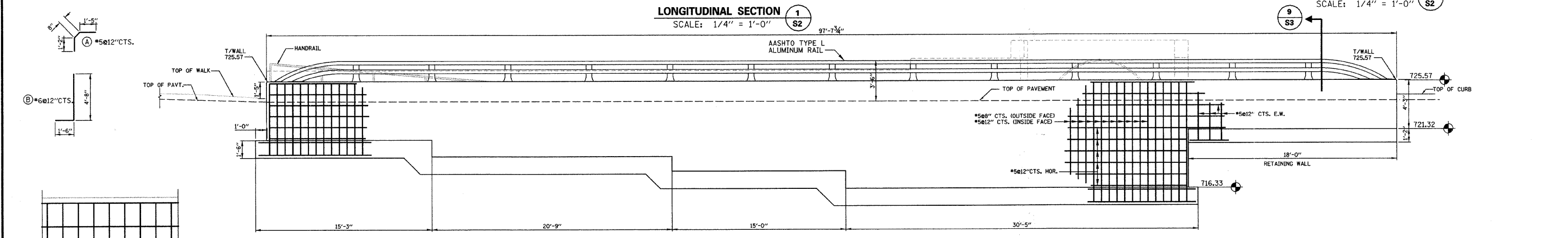
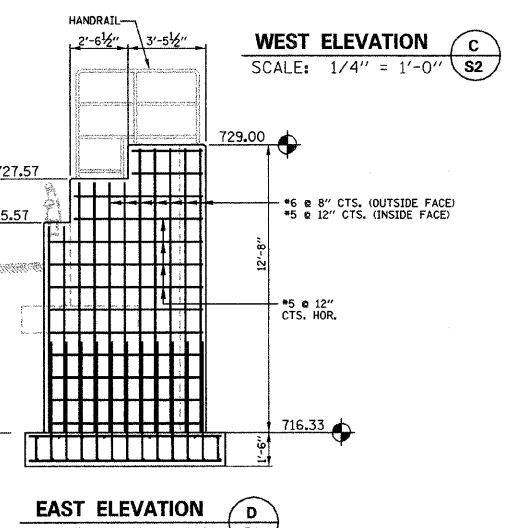
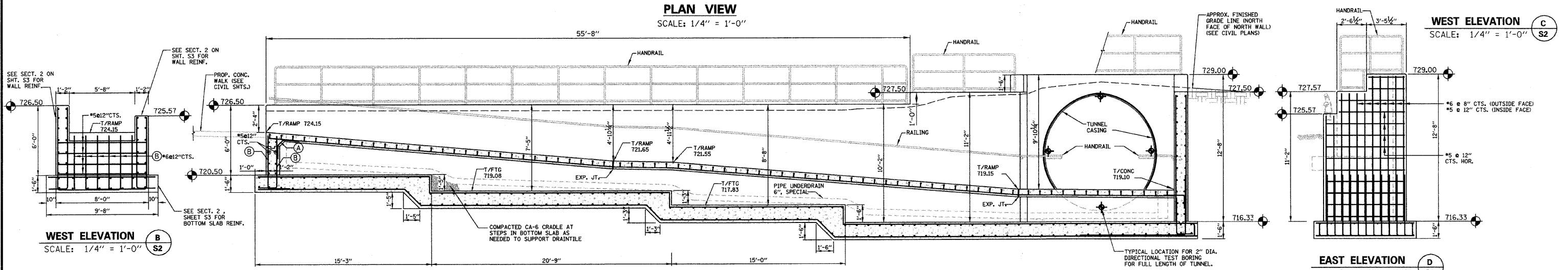
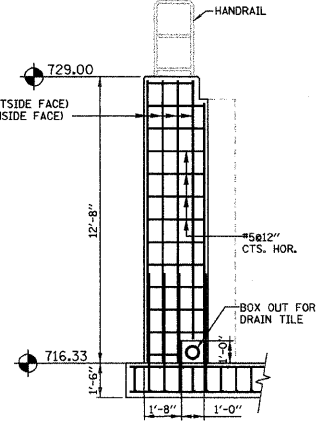
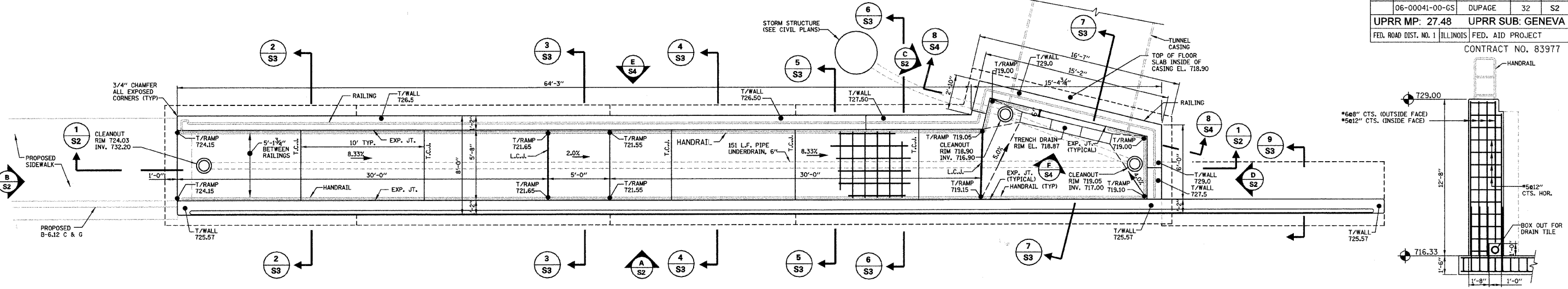
CONTRACTOR'S AFFIDAVIT

| PROJECT | SHEET TITLE | SCALE | PROJECT NO. | SHEET |
|--|---------------------------------|-------|---------------|---------|
| | | | WF-451 | No. C11 |
| PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS | EROSION CONTROL NOTES & DETAILS | NONE | DATE | Of C11 |
| | | | DEC. 19, 2008 | |

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| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | E.J. | | | | |

REMPE-SHARPE CONSULTING ENGINEERS
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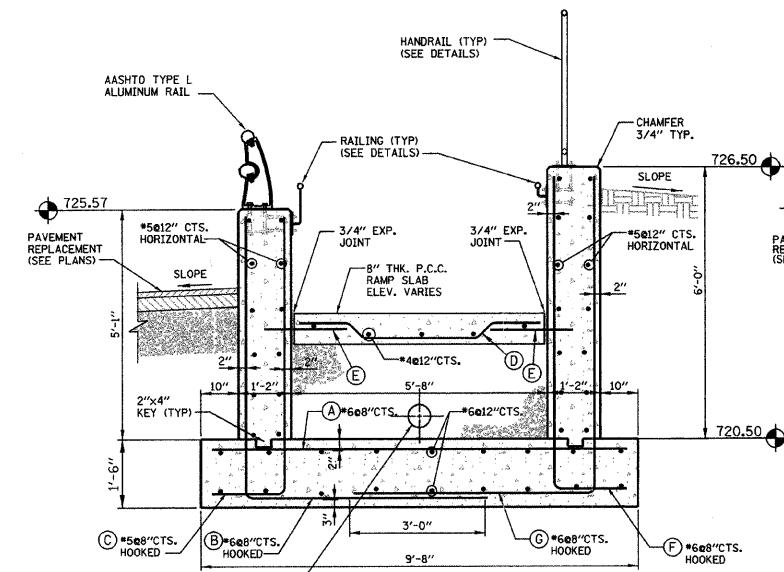


- NOTES:**
- ALL CONCRETE SHALL BE CLASS "SI".
 - ALL REBAR CLEARANCE DIMENSIONS ARE CLEAR COVER (NOT TO THE CENTER OF THE BAR).
 - ALL CONCRETE WALL SURFACES TO BE EXPOSED IN THE FINAL CONDITION SHALL HAVE Voids FILLED WITH NON-SHRINK GROUT AND BE RUBBED SMOOTH. EXPOSED WALL SURFACES SHALL THEN BE FINISHED WITH A GLOSS EPOXY LIGHT GRAY PROTECTIVE COATING (TNEEC OR APPROV. EQUAL) ACCORDING TO THE SPECIFICATIONS TO A HEIGHT OF SIX INCHES BELOW THE FINISHED GRADE ELEVATION.
 - ALL CONCRETE SURFACES THAT WILL BE IN CONTACT WITH EARTH BACKFILL AND/OR PAVEMENT SHALL BE PROVIDED WITH WATERPROOF TAR EPOXY PAINT COATING ON EXTERIOR OF CONCRETE WALLS TO A HEIGHT OF 6 INCHES BELOW THE FINISHED GRADE ELEVATION.
 - RAMP SURFACES AND TUNNEL FLOOR: MEMBRANE CURING SHALL BE APPLIED AS SPECIFIED IN SECTION 722 OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION. W.R. MEADOWS VOCOWP-20 CURE & SEAL, OR APPROVED EQUAL, SHALL BE USED PER MANUFACTURER'S SPECIFICATIONS. FINISHED SURFACES SHALL RECEIVE A LIGHT BROOM FINISH AT RIGHT ANGLES TO THE EDGES OF THE RAMP. EXPANSION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED PER I.D.O.T. STD. 42001-07 WHERE SHOWN ON THE PLANS.
 - PIPE UNDERDRAIN SHALL BE PERFORATED CORRUGATED POLYETHYLENE TUBING WITH FILTER SOCK PER I.D.O.T. 1040.04
 - SEE SHT. S4 FOR SOUTH RAMP BILL OF MATERIAL.
 - EXP. JT. = 3/4" PREMOULDED EXPANSION JOINT (AT WALLS)
 L.C.J. = LONGITUDINAL CONSTRUCTION JOINTS PER IDOT STD. 420001-07.
 T.C.J. = TRANSVERSE CONTRACTION JOINTS PER IDOT STD. 420001-07.

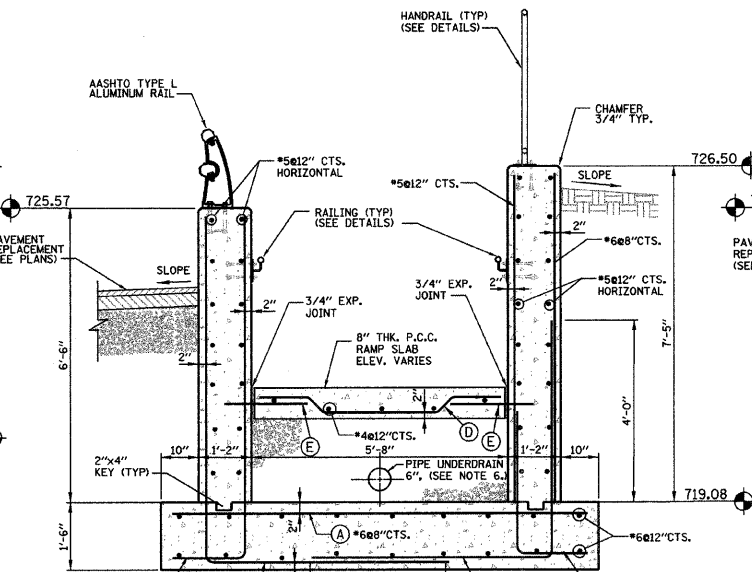
| | | | | | | | | | | | | |
|--|--------|-----|------|--|----|--|--|---|--|----------------|-----------------------|---|
| This drawing shall not be used nor reproduced either wholly or in part except when authorized by the engineer - Rempe-Sharpe | | | | PROJECT PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS | | | | SHEET TITLE SOUTH RAMP PLAN & DETAILS | | SCALE NOTED | PROJECT NO. WF-451 | SHEET No. S2 Of S16 |
| ACTION | NAME | | | | | | | | | | | |
| Design | J.B. | | | | | | | | | | | |
| Drawn | D.B.E. | | | | | | | | | | | |
| Checked | S.S. | No. | Date | Revisions | By | | | | | | | |

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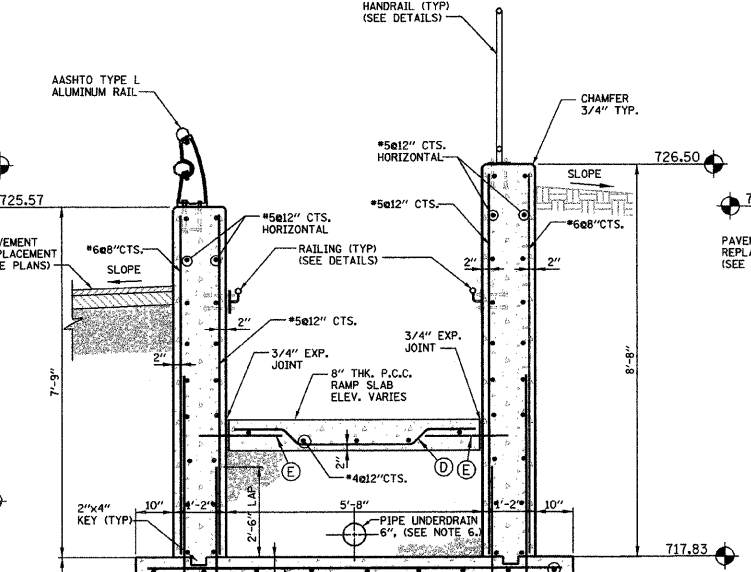
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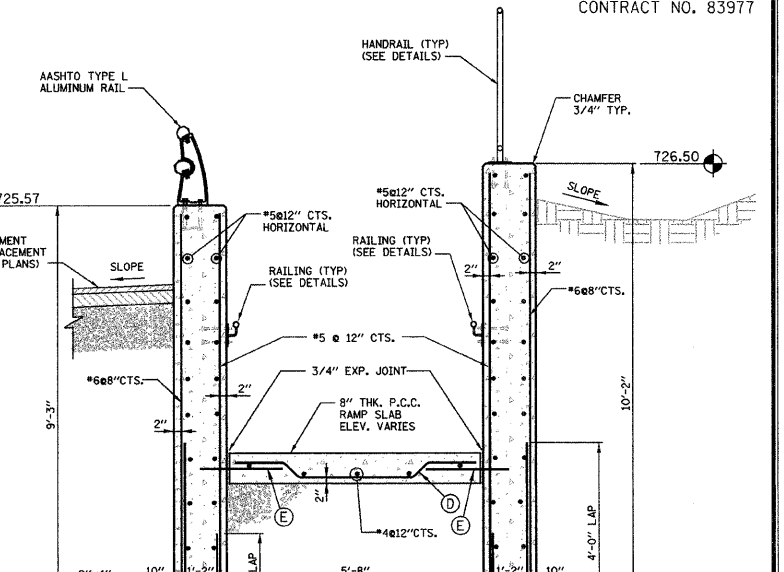
SECTION 2
 SCALE: 1/2" = 1'-0"
 S2



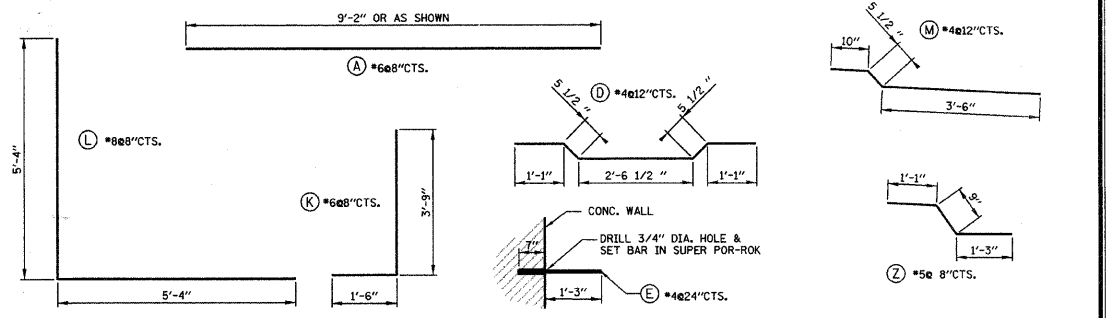
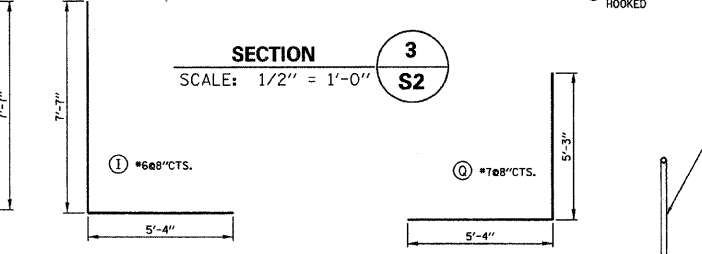
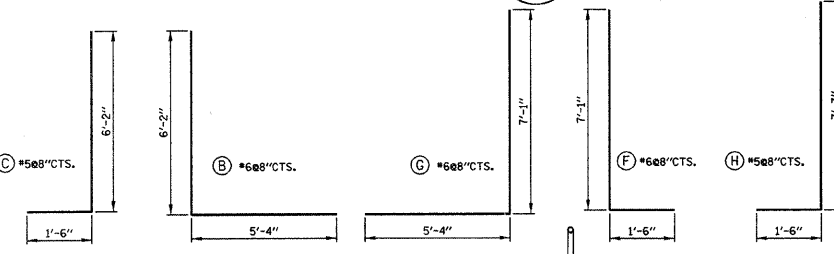
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 SCALE: 1/2" = 1'-0"
 S2



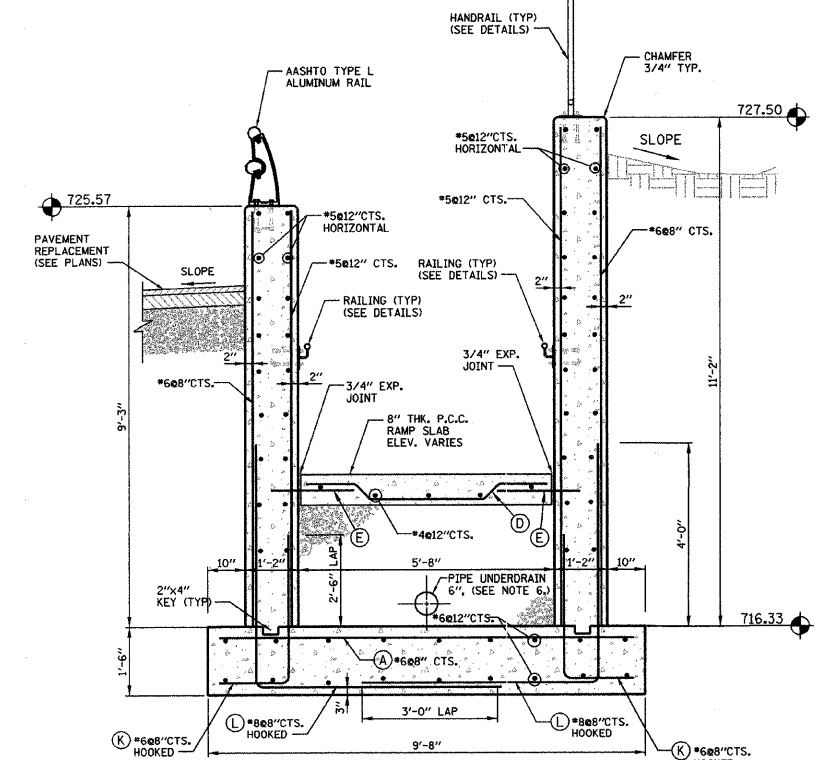
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 S2



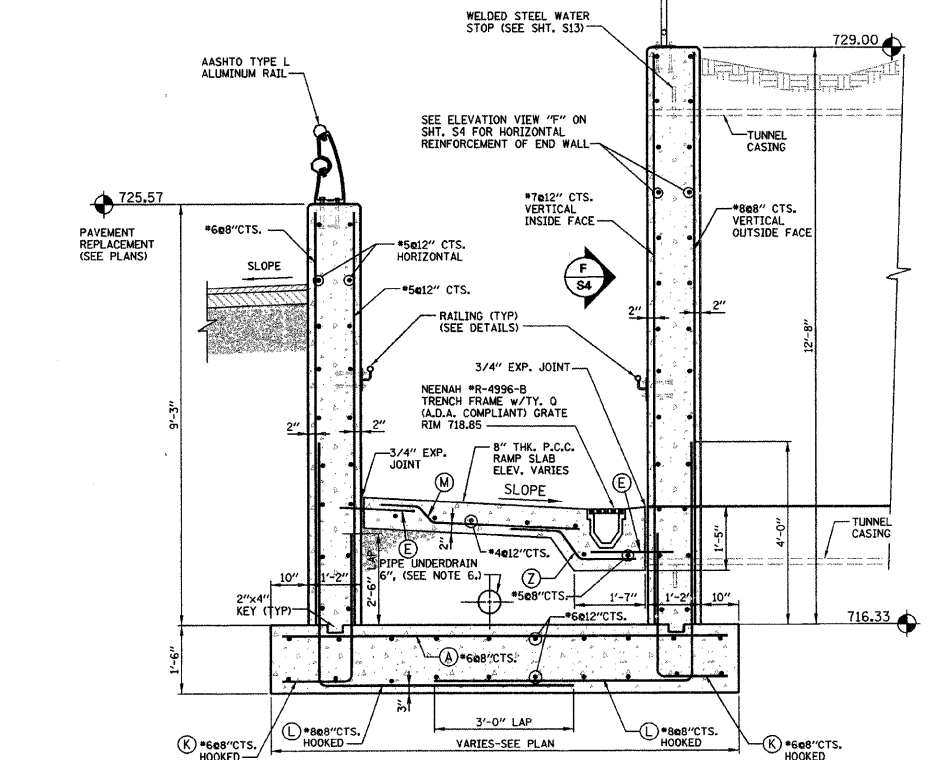
SECTION 5
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 S2



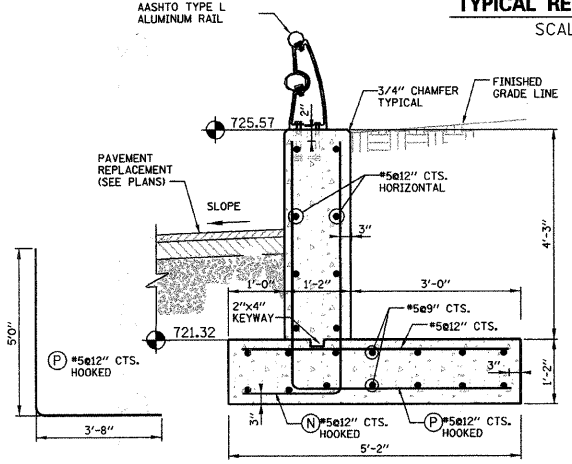
TYPICAL REINFORCEMENT DETAILS
 SCALE: 1/2" = 1'-0"



SECTION 6
 SCALE: 1/2" = 1'-0"
 S2



SECTION 7
 SCALE: 1/2" = 1'-0"
 S2



NOTE: ALL REBAR CLEARANCE DIMENSIONS ARE CLEAR COVER (NOT TO THE CENTER OF THE BAR).

TYPICAL SECTION THROUGH CONCRETE RETAINING WALL
 SCALE: 1/2" = 1'-0"
 S2

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 4. ALL CONCRETE SURFACES THAT WILL BE IN CONTACT WITH EARTH BACKFILL AND / OR PAVEMENT SHALL BE PROVIDED WITH WATERPROOF TAR COATING ON EXTERIOR OF CONCRETE WALLS TO A HEIGHT OF 6 INCHES BELOW THE FINISHED GRADE ELEVATION.
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 6. PIPE UNDERDRAIN SHALL BE PERFORATED CORRUGATED POLYETHYLENE TUBING WITH FILTER SOCK PER I.D.O.T. 1040.04
 7. SEE SHT. S4 FOR SOUTH RAMP BILL OF MATERIALS.

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| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | S.S. | | | | |

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 324 WEST STATE STREET - GENEVA, ILLINOIS 60134
 Telephone (630) 232-0827 - Fax (630) 232-1629

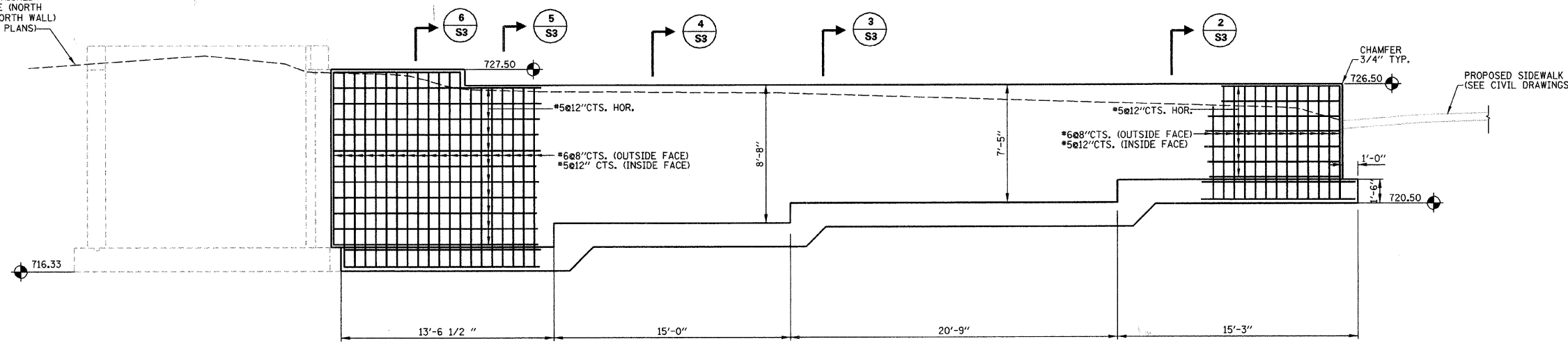
PROJECT
PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

SHEET TITLE
SOUTH RAMP SECTIONS AND DETAILS

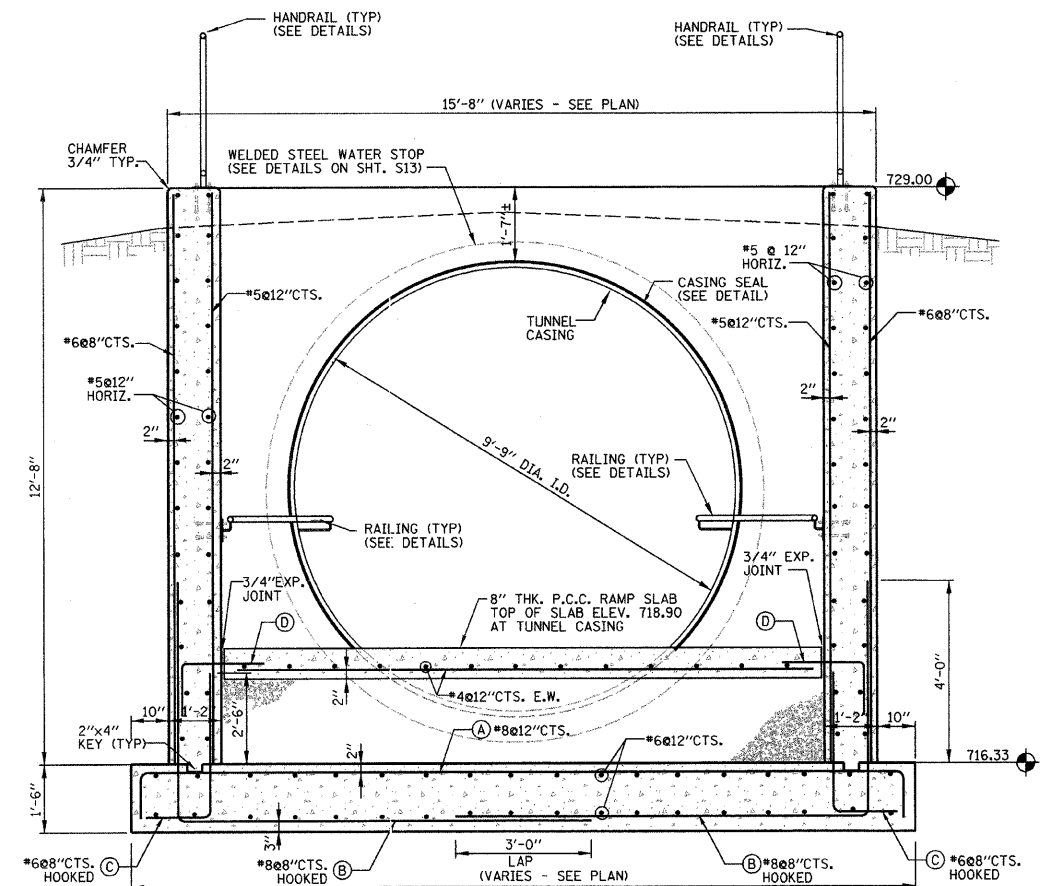
| SCALE | PROJECT NO. | SHEET |
|-------|---------------|---------------|
| NOTED | WF-451 | No. S3 |
| | DATE | Of S16 |
| | DEC. 19, 2008 | |

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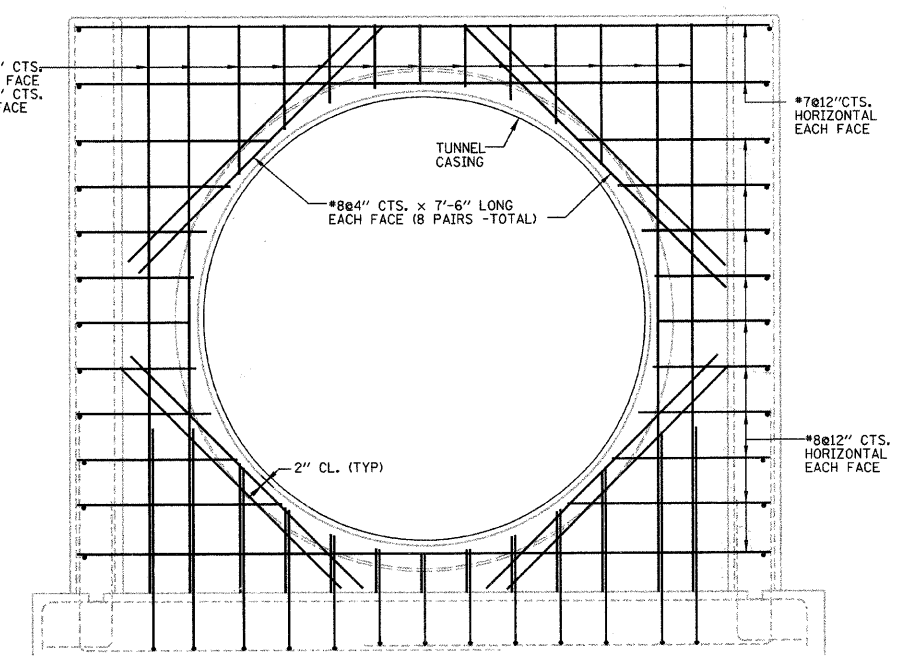
APPROX. FINISHED GRADE LINE (NORTH FACE OF NORTH WALL) (SEE CIVIL PLANS)



E NORTH WALL ELEVATION
S2 SCALE: 1/4" = 1'-0"



SECTION 8
S2 SCALE: 1/2" = 1'-0"

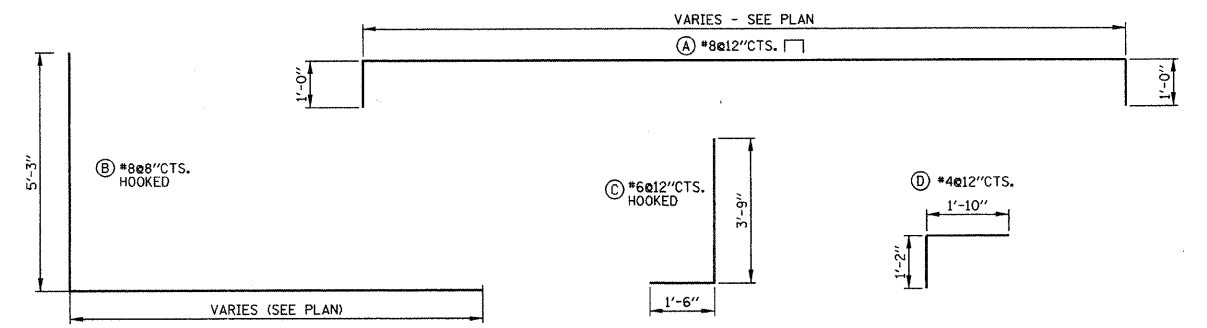


ELEVATION F
S2 SCALE: 1/2" = 1'-0"

BILL OF MATERIAL - SOUTH RAMP STRUCTURE (SHT. S4)

| DESCRIPTION | UNIT | QUANTITY |
|------------------------------------|-------|----------|
| Steel Sheet Piling (Special) | SQ FT | 1,000 |
| Structure Excavation (Special) | CU YD | 525 |
| Concrete Structure (Base Slab) | CU YD | 55 |
| Concrete Structure (Walls) | CU YD | 65 |
| Concrete Structure (8" Thick Ramp) | CU YD | 12 |
| Reinforcement Bars | POUND | 20,190 |
| Pipe Underdrain 6", Special | FOOT | 175 |
| Pipe Underdrain Cleanout Complete | EACH | 3 |
| Porous Granular Backfill, Special | CU YD | 170 |
| Trench Backfill, Special | CU YD | 255 |
| Pedestrian Railing | FOOT | 156 |
| Pipe Handrail, Special | FOOT | 87 |
| Rubbed Finish | SQ FT | 1,700 |
| Painting | SQ FT | 1,700 |
| Aluminum Railing, Type L | FOOT | 96 |

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TYPICAL REINFORCEMENT DETAILS
S2 SCALE: 1/2" = 1'-0"

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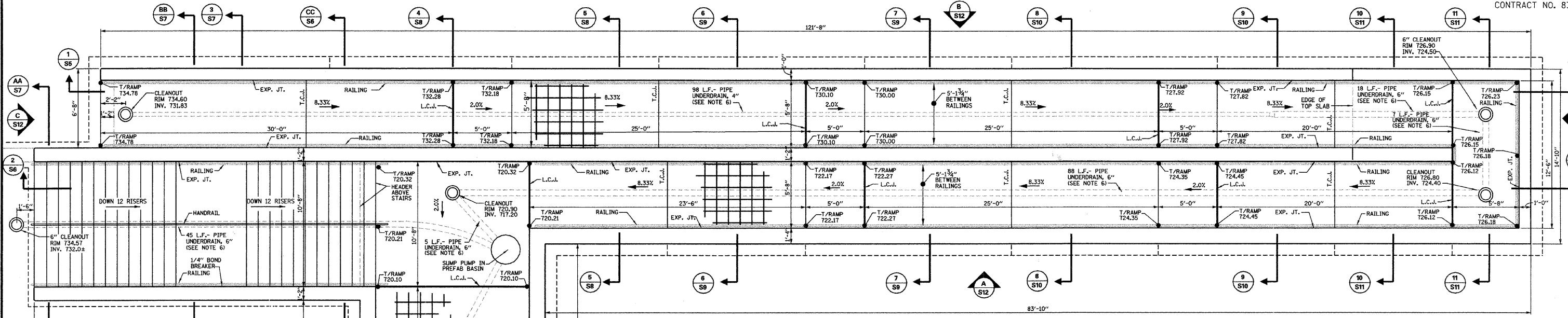
| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | S.S. | | | | |

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IL P.D.F. LICENSE NO. 184-000895
324 WEST STATE STREET - GENEVA, ILLINOIS 60134
Telephone (630) 232-0827 - Fax (630) 232-1629

PROJECT: PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

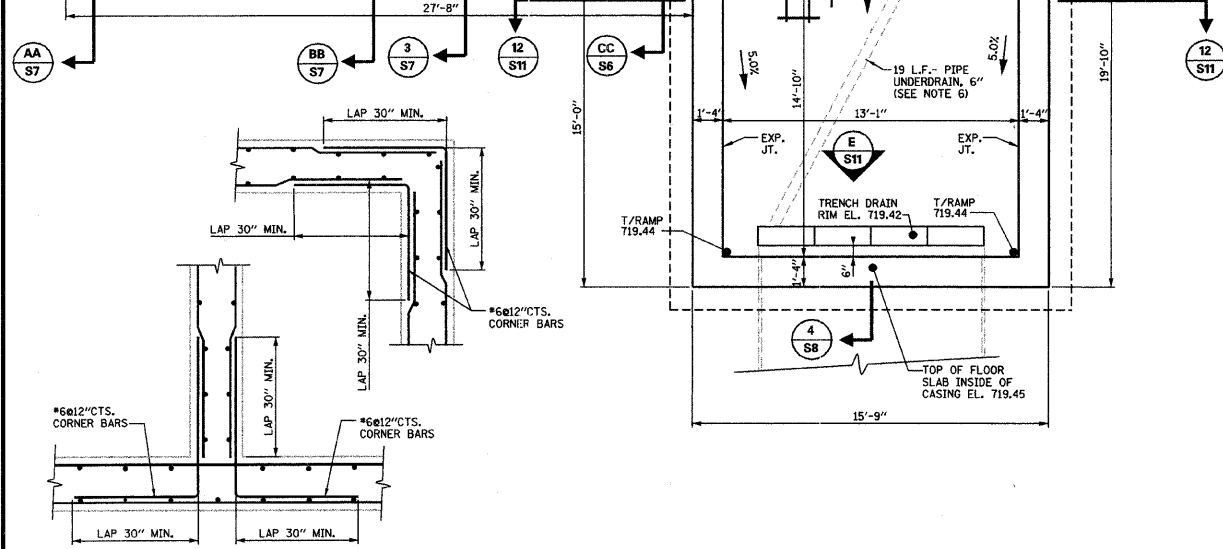
SHEET TITLE: SOUTH RAMP SECTIONS AND ELEVATIONS

| | | |
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| SCALE: NOTED | PROJECT NO. WF-451 | SHEET No. S4 |
| | DATE: DEC. 19, 2008 | of S16 |

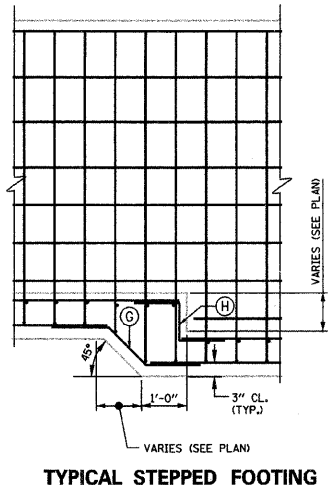


FOUNDATION PLAN - BELOW TOP SLAB
SCALE: 1/4" = 1'-0"

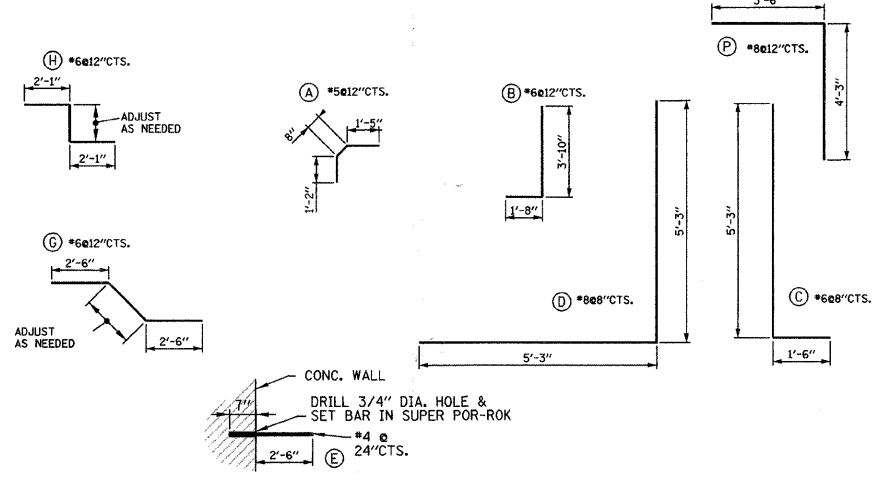
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 6. PIPE UNDERDRAIN SHALL BE PERFORMED CORRUGATED POLYETHYLENE TUBING WITH FILTER SOCK PER I.D.O.T. 1040.04
 7. SEE SHT. S7 FOR NORTH RAMP BILL OF MATERIALS.
 8. EXP. JT. = 3/4" PREMOULDED EXPANSION JOINT (AT WALLS)
L.C.J. = LONGITUDINAL CONTRACTION JOINTS PER IDOT STD. 420001-07
T.C.J. = TRANSVERSE CONTRACTION JOINTS PER IDOT STD. 420001-07.



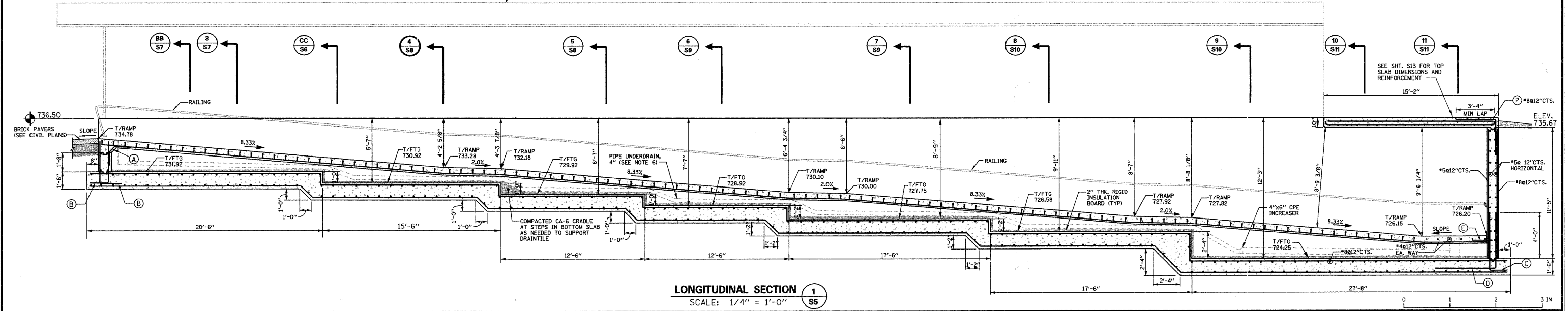
TYPICAL CORNER REINFORCEMENT
SCALE: 1/2" = 1'-0"



TYPICAL STEPPED FOOTING
SCALE: 1/2" = 1'-0"



TYPICAL REINFORCEMENT DETAILS
SCALE: 1/2" = 1'-0"



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

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| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | S.S. | | | | |

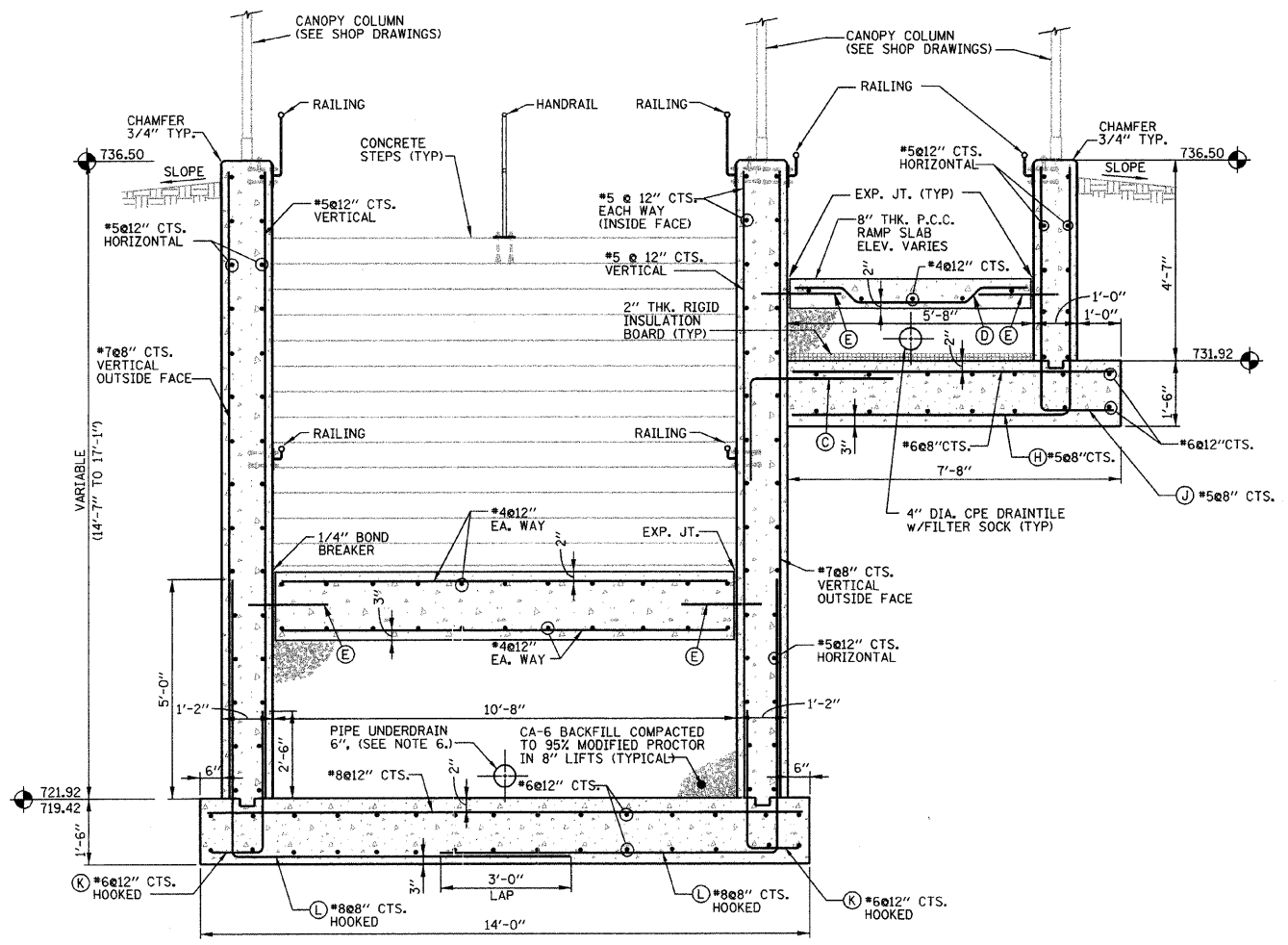
REMPE-SHARPE CONSULTING ENGINEERS
IL P.D.F. LICENSE NO. 184-000895
324 WEST STATE STREET - GENEVA, ILLINOIS 60134
Telephone (630) 232-0827 - Fax (630) 232-1629

PROJECT
PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

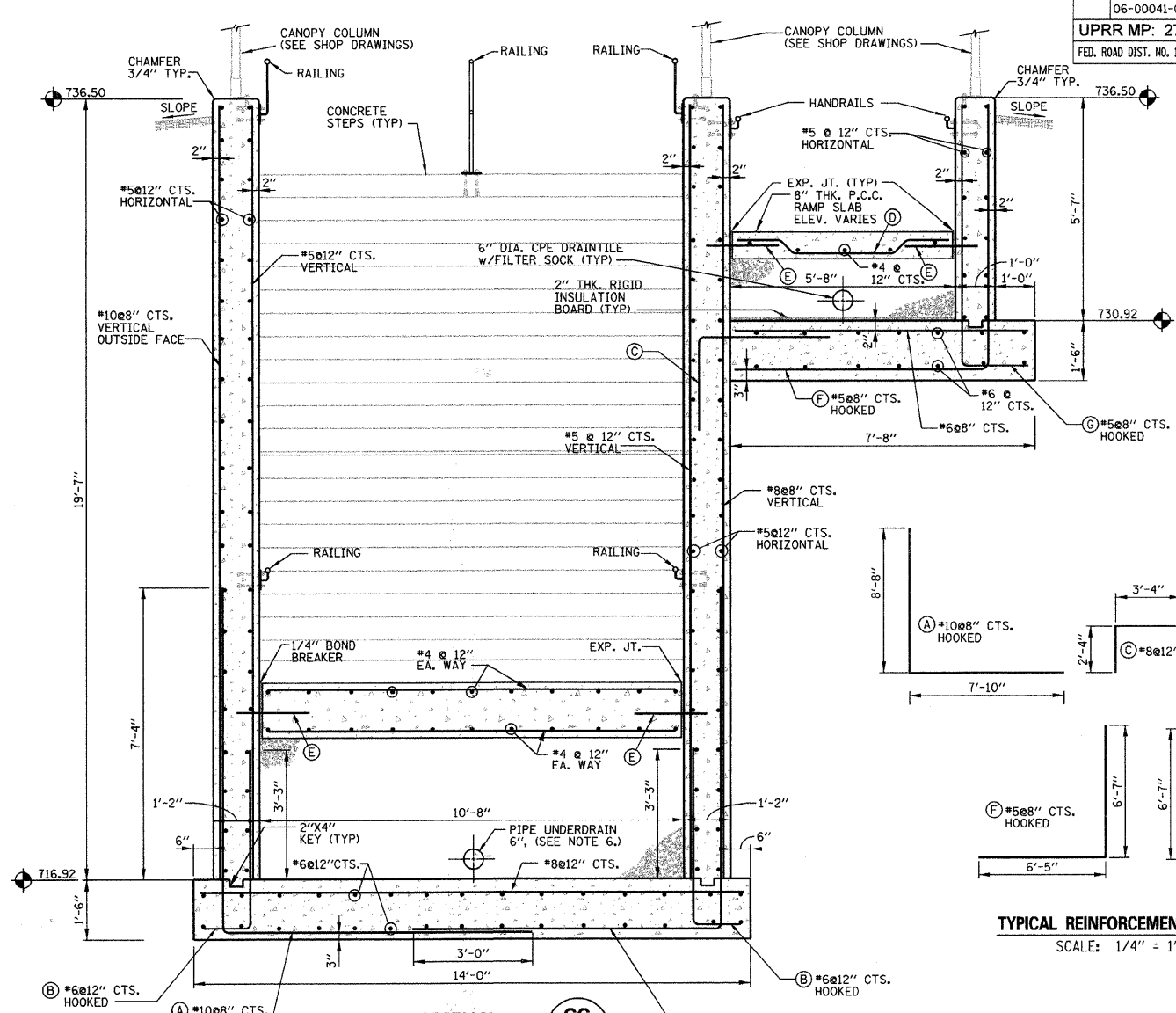
SHEET TITLE
NORTH RAMP PLAN & DETAILS

| | | |
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| NOTED | WF-451 | No. S5 |
| | DATE | Of S16 |
| | DEC. 19, 2008 | |

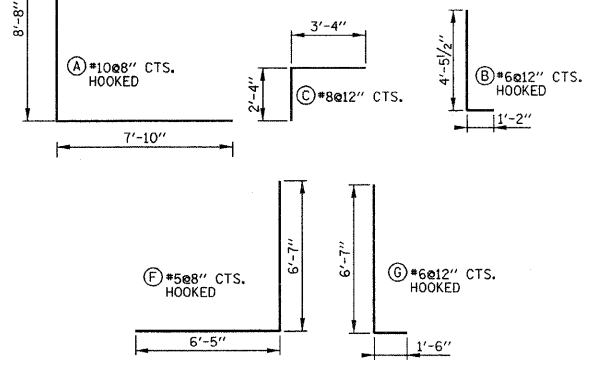
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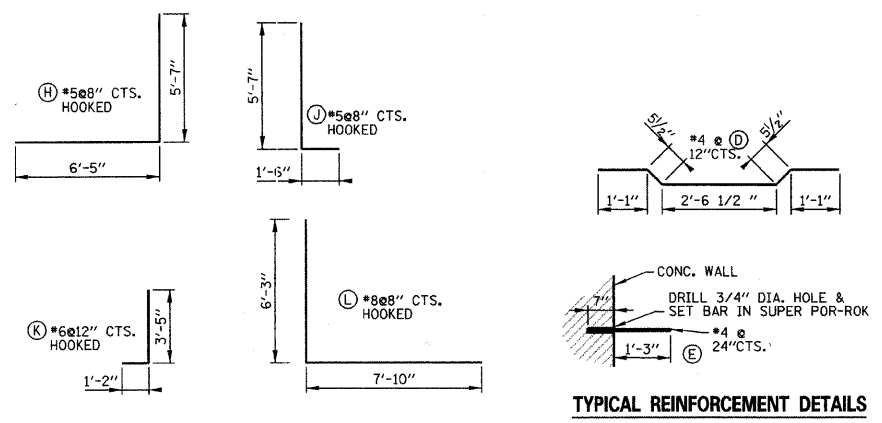
SECTION 3 S6
 SCALE: 1/2" = 1'-0"



SECTION CC S6
 SCALE: 1/2" = 1'-0"



TYPICAL REINFORCEMENT DETAILS
 SCALE: 1/4" = 1'-0"



TYPICAL REINFORCEMENT DETAILS
 SCALE: 1/4" = 1'-0"

BILL OF MATERIAL - NORTH RAMP STRUCTURE (SHT. S7)

| DESCRIPTION | UNIT | QUANTITY |
|--|-------|----------|
| Steel Sheet Piling (Special) | SQ FT | 5,500 |
| Temporary Steel Sheet Piling (Special) | SQ FT | 2,200 |
| Structure Excavation (Special) | CU YD | 2,010 |
| Concrete Structure (Base Slab) | CU YD | 200 |
| Concrete Structure (Walls) | CU YD | 265 |
| Concrete Structure (Top Slab) | CU YD | 50 |
| Concrete Structure (8" Thick Ramp) | CU YD | 40 |
| Concrete Structure (Stairs) | CU YD | 22 |
| Reinforcement Bars | POUND | 91,650 |
| Insulation | SQ FT | 750 |
| Pipe Underdrain 4", Special | FOOT | 105 |
| Pipe Underdrain 6", Special | FOOT | 180 |
| Underdrain Cleanout, Complete | EACH | 5 |
| Porous Granular Backfill, Special | CU YD | 275 |
| Trench Backfill, Special | CU YD | 635 |
| Pedestrian Railing | FOOT | 482 |
| Pipe Handrail, Special | FOOT | 34 |
| Rubbed Finish | SQ FT | 6,000 |
| Painting | SQ FT | 6,000 |
| Prefab Canopy Assembly (11'-10" Wide) Complete | FOOT | 32 |
| Prefab Canopy Assembly (6'-8" Wide) Complete | FOOT | 106 |

- NOTES:
- ALL CONCRETE SHALL BE CLASS "SI".
 - ALL REBAR CLEARANCE DIMENSIONS ARE CLEAR COVER (NOT TO THE CENTER OF THE BAR).
 - ALL CONCRETE WALL SURFACES TO BE EXPOSED IN THE FINAL CONDITION SHALL HAVE Voids FILLED WITH NON-SHRINK GROUT AND BE RUBBED SMOOTH. EXPOSED WALL SURFACES SHALL THEN BE FINISHED WITH A GLOSS EPOXY LIGHT GRAY PROTECTIVE COATING (TNECO OR APPROV. EQUAL) ACCORDING TO THE SPECIFICATIONS TO A HEIGHT OF SIX INCHES BELOW THE FINISHED GRADE ELEVATION.
 - ALL CONCRETE SURFACES THAT WILL BE IN CONTACT WITH EARTH BACKFILL AND / OR PAVEMENT SHALL BE PROVIDED WITH WATERPROOF TAR EPOXY PAINT COATING ON EXTERIOR OF CONCRETE WALLS TO A HEIGHT OF 6 INCHES BELOW THE FINISHED GRADE ELEVATION.
 - RAMP SURFACES AND TUNNEL FLOOR MEMBRANE CURING SHALL BE APPLIED AS SPECIFIED IN SECTION 722 OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION. W.R. MEADOWS VOCOMP-20 CURE & SEAL, OR APPROVED EQUAL, SHALL BE USED PER MANUFACTURER'S SPECIFICATIONS. FINISHED SURFACES SHALL RECEIVE A LIGHT BROOM FINISH AT RIGHT ANGLES TO THE EDGES OF THE RAMP. EXPANSION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED PER I.D.O.T. STD. 42001-07 WHERE SHOWN ON TH PLANS.
 - PIPE UNDERDRAIN SHALL BE PERFORATED CORRUGATED POLYETHYLENE TUBING WITH FILTER SOCK PER I.D.O.T. 1040.04
 - SEE SHT. S7 FOR NORTH RAMP BILL OF MATERIALS.

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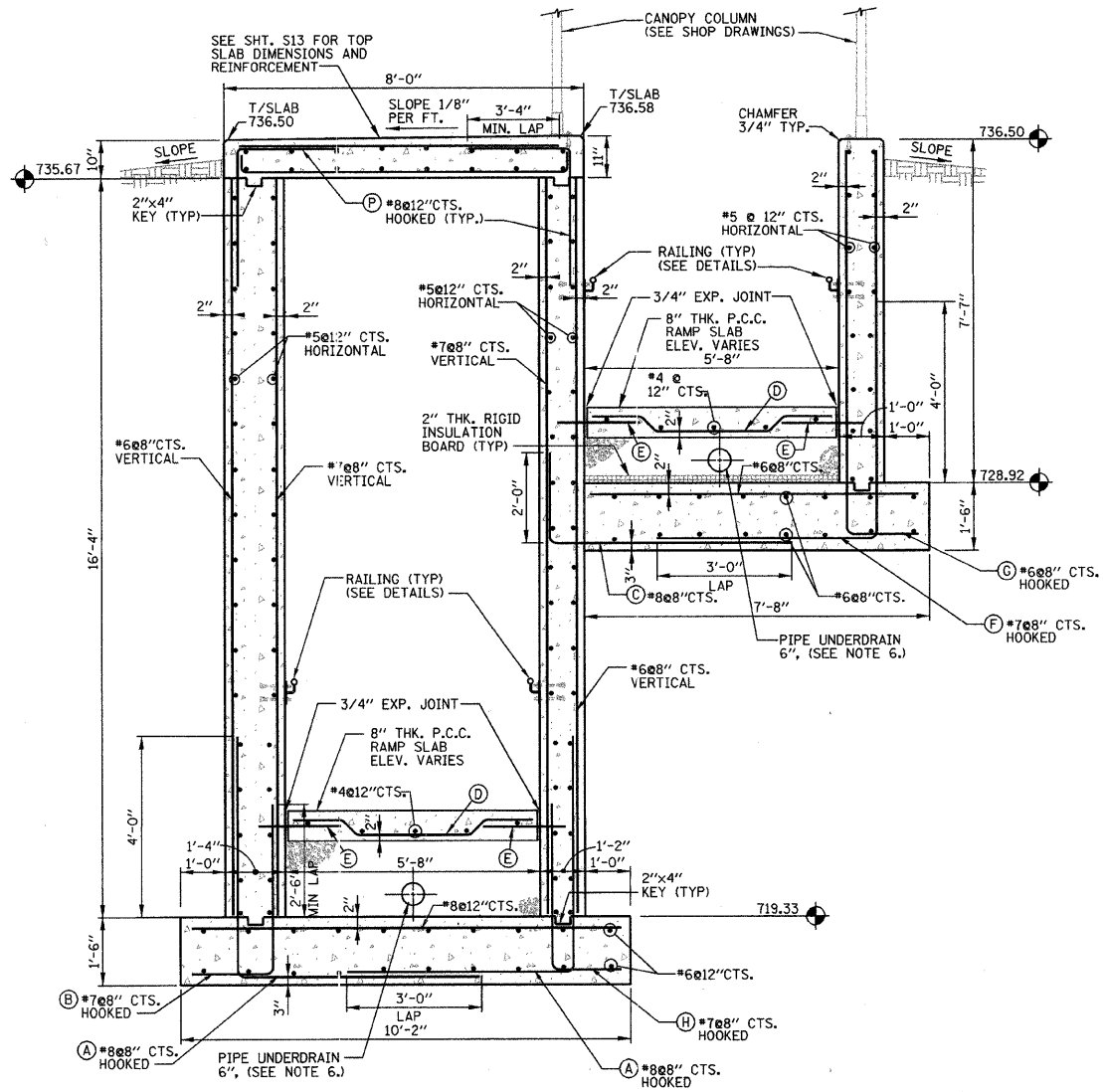
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| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | S.S. | | | | |

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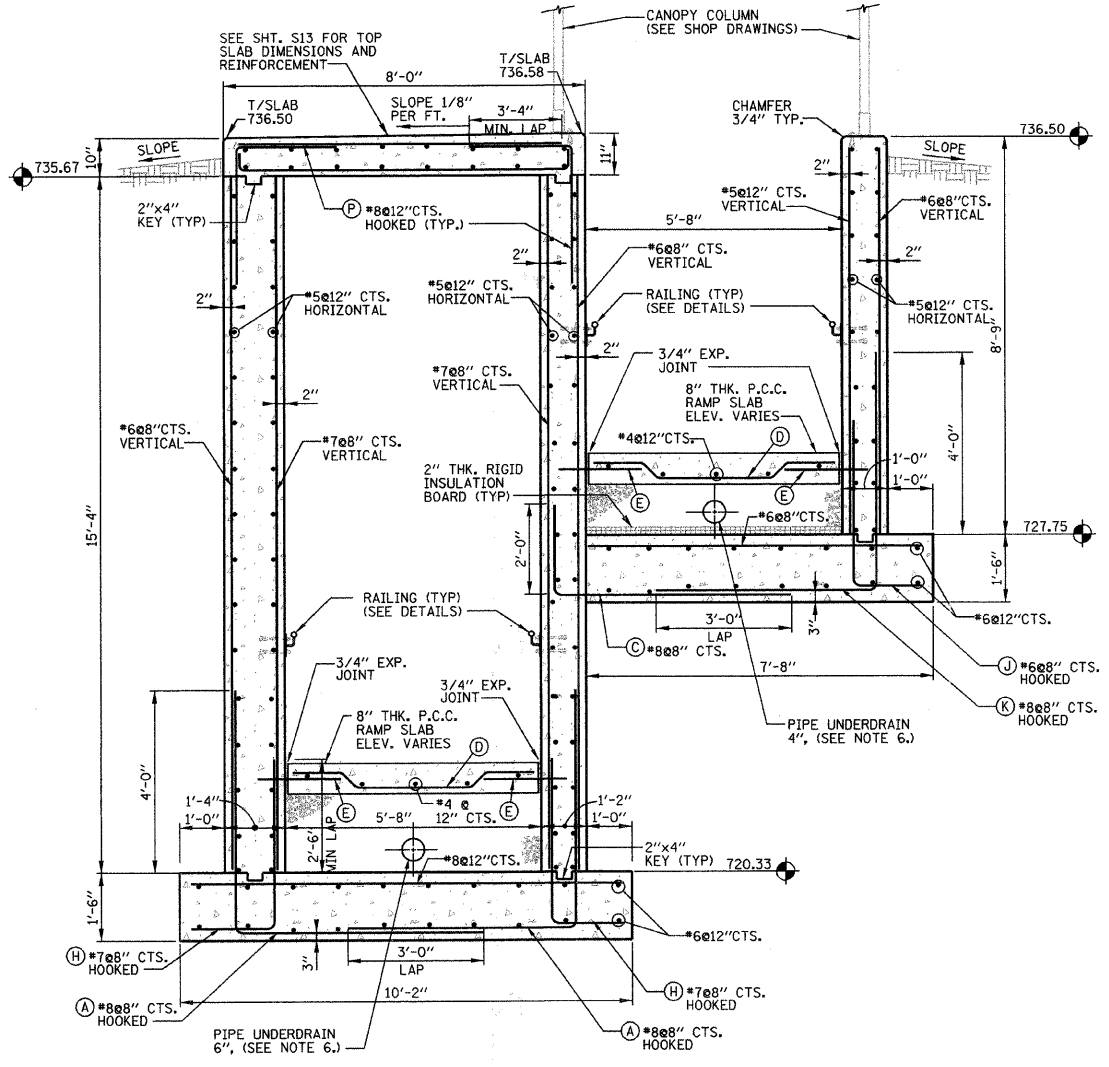
PROJECT
PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

SHEET TITLE
NORTH RAMP SECTIONS AND DETAILS

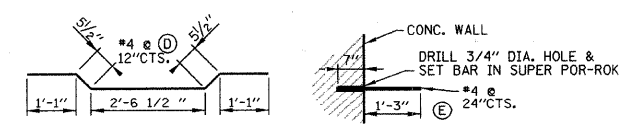
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| NOTED | WF-451 | No. S7 |
| | DATE | Of S16 |
| | DEC. 19, 2008 | |



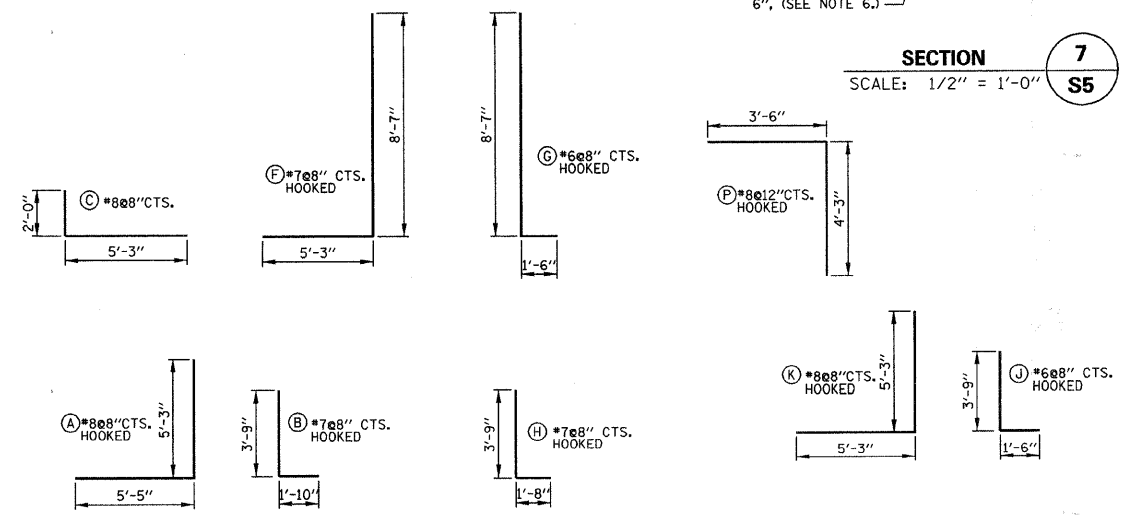
SECTION 6
SCALE: 1/2" = 1'-0"
S5



SECTION 7
SCALE: 1/2" = 1'-0"
S5



TYPICAL REINFORCEMENT DETAILS
SCALE: 1/2" = 1'-0"



TYPICAL REINFORCEMENT DETAILS
SCALE: 1/4" = 1'-0"

- NOTES:**
- ALL CONCRETE SHALL BE CLASS "SI".
 - ALL REBAR CLEARANCE DIMENSIONS ARE CLEAR COVER (NOT TO THE CENTER OF THE BAR).
 - ALL CONCRETE WALL SURFACES TO BE EXPOSED IN THE FINAL CONDITION SHALL HAVE Voids FILLED WITH NON-SHRINK GROUT AND BE RUBBED SMOOTH. EXPOSED WALL SURFACES SHALL THEN BE FINISHED WITH A GLOSS EPOXY LIGHT GRAY PROTECTIVE COATING (TNEC OR APPROV. EQUAL) ACCORDING TO THE SPECIFICATIONS TO A HEIGHT OF SIX INCHES BELOW THE FINISHED GRADE ELEVATION.
 - ALL CONCRETE SURFACES THAT WILL BE IN CONTACT WITH EARTH BACKFILL AND / OR PAVEMENT SHALL BE PROVIDED WITH WATERPROOF TAR EPOXY PAINT COATING ON EXTERIOR OF CONCRETE WALLS TO A HEIGHT OF 6 INCHES BELOW THE FINISHED GRADE ELEVATION.
 - RAMP SURFACES AND TUNNEL FLOOR: MEMBRANE CURING SHALL BE APPLIED AS SPECIFIED IN SECTION 722 OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION. W.R. MEADOWS VOCOMP-20 CURE & SEAL, OR APPROVED EQUAL, SHALL BE USED PER MANUFACTURER'S SPECIFICATIONS. FINISHED SURFACES SHALL RECEIVE A LIGHT BROOM FINISH AT RIGHT ANGLES TO THE EDGES OF THE RAMP. EXPANSION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED PER I.D.O.T. STD. 420001-07 WHERE SHOWN ON THE PLANS.
 - PIPE UNDERDRAIN SHALL BE PERFORATED CORRUGATED POLYETHYLENE TUBING WITH FILTER SOCK PER I.D.O.T. 1040.04
 - SEE SHT. S7 FOR NORTH RAMP BILL OF MATERIALS.

1/2/2009 4:28:15 PM N:\DGN\WF\451\SS\REINFORCEMENT\WF451-SS-RRAMP-SECT.DGN

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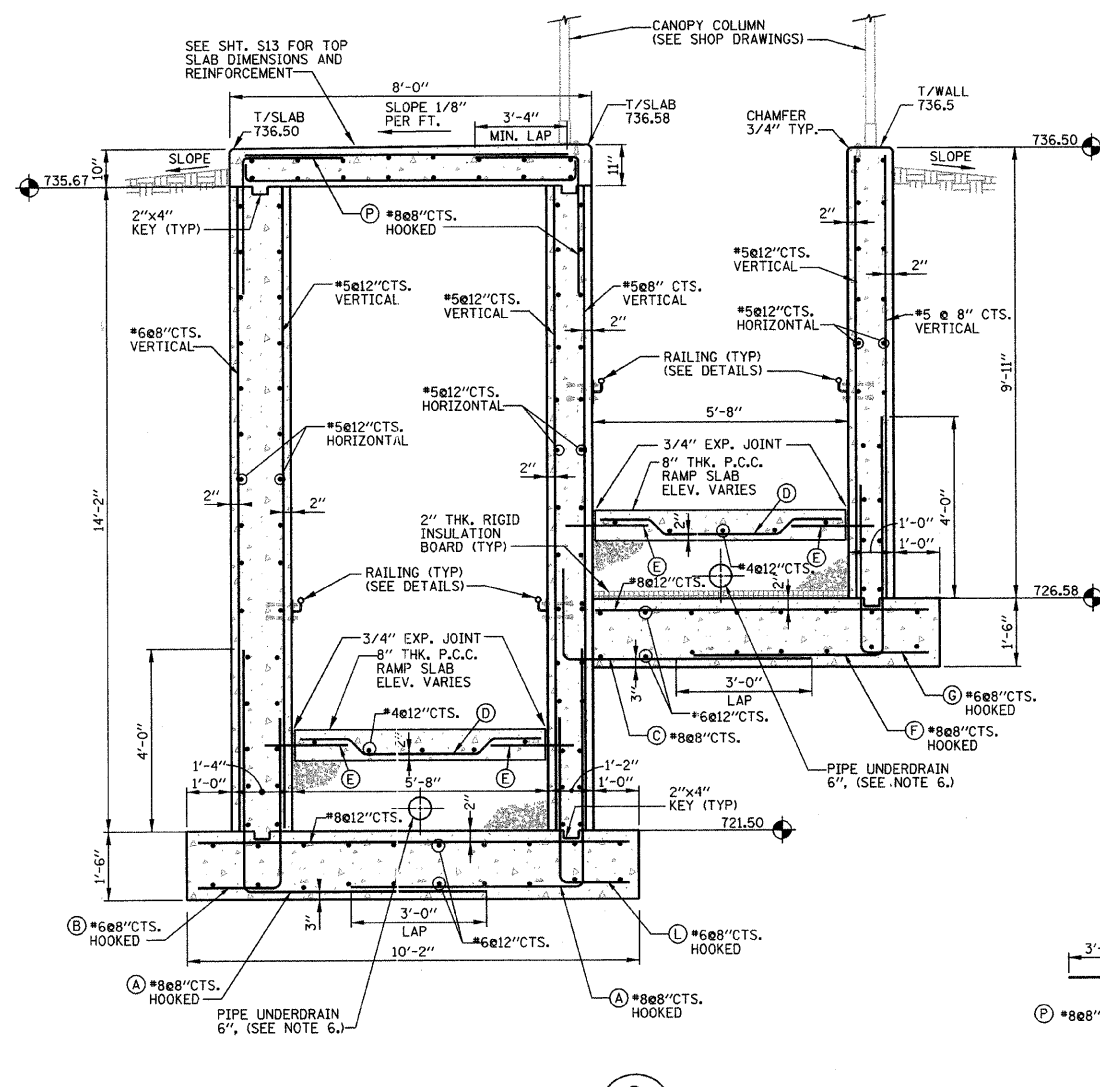
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| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | S.S. | | | | |

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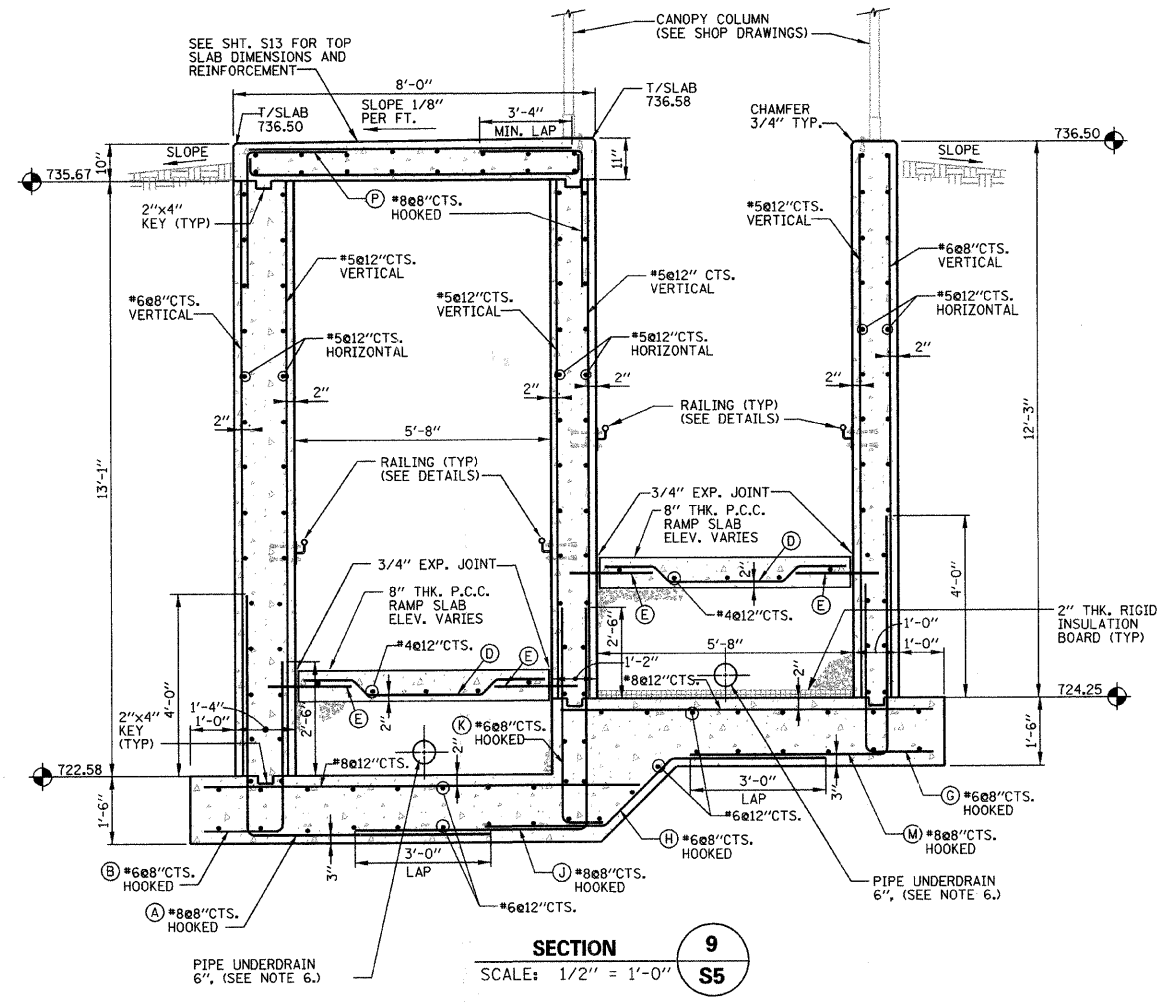
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SHEET TITLE: NORTH RAMP SECTIONS AND DETAILS

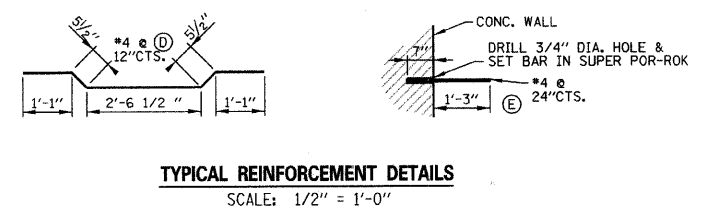
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| | DATE: DEC. 19, 2008 | Of S16 |



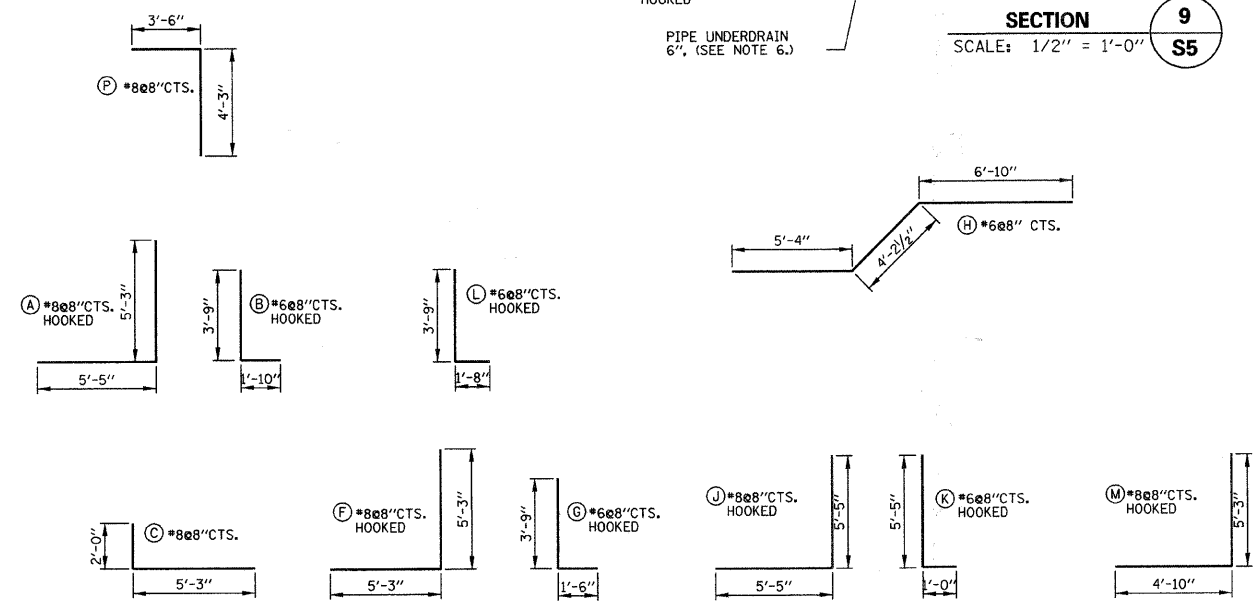
SECTION 8
SCALE: 1/2" = 1'-0" S5



SECTION 9
SCALE: 1/2" = 1'-0" S5



TYPICAL REINFORCEMENT DETAILS
SCALE: 1/2" = 1'-0"



TYPICAL REINFORCEMENT DETAILS
SCALE: 1/4" = 1'-0"

- NOTES:**
1. ALL CONCRETE SHALL BE CLASS "SI".
 2. ALL REBAR CLEARANCE DIMENSIONS ARE CLEAR COVER (NOT TO THE CENTER OF THE BAR).
 3. ALL CONCRETE WALL SURFACES TO BE EXPOSED IN THE FINAL CONDITION SHALL HAVE Voids FILLED WITH NON-SHRINK GROUT AND BE RUBBED SMOOTH. EXPOSED WALL SURFACES SHALL THEN BE FINISHED WITH A GLOSS EPOXY LIGHT GRAY PROTECTIVE COATING (NEMEC OR APPROV. EQUAL) ACCORDING TO THE SPECIFICATIONS TO A HEIGHT OF SIX INCHES BELOW THE FINISHED GRADE ELEVATION.
 4. ALL CONCRETE SURFACES THAT WILL BE IN CONTACT WITH EARTH BACKFILL AND / OR PAVEMENT SHALL BE PROVIDED WITH WATERPROOF TAR EPOXY PAINT COATING ON EXTERIOR OF CONCRETE WALLS TO A HEIGHT OF 6 INCHES BELOW THE FINISHED GRADE ELEVATION.
 5. RAMP SURFACES AND TUNNEL FLOOR: MEMBRANE CURING SHALL BE APPLIED AS SPECIFIED IN SECTION 722 OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION. W.R. MEADOWS VOCOMP-20 CURE & SEAL, OR APPROVED EQUAL, SHALL BE USED PER MANUFACTURER'S SPECIFICATIONS. FINISHED SURFACES SHALL RECEIVE A LIGHT BROOM FINISH AT RIGHT ANGLES TO THE EDGES OF THE RAMP. EXPANSION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED PER I.D.O.T. STD. 420001-07 WHERE SHOWN ON THE PLANS.
 6. PIPE UNDERDRAIN SHALL BE PERFORMED CORRUGATED POLYETHYLENE TUBING WITH FILTER SOCK PER I.D.O.T. 1040.04
 7. SEE SHT. 57 FOR NORTH RAMP BILL OF MATERIALS.

1/6/2009 4:30:06 PM N:\DOR\MP\451\SHEETS\STRUCTURAL\WF451-S10-NRAMP-SECT.DGN

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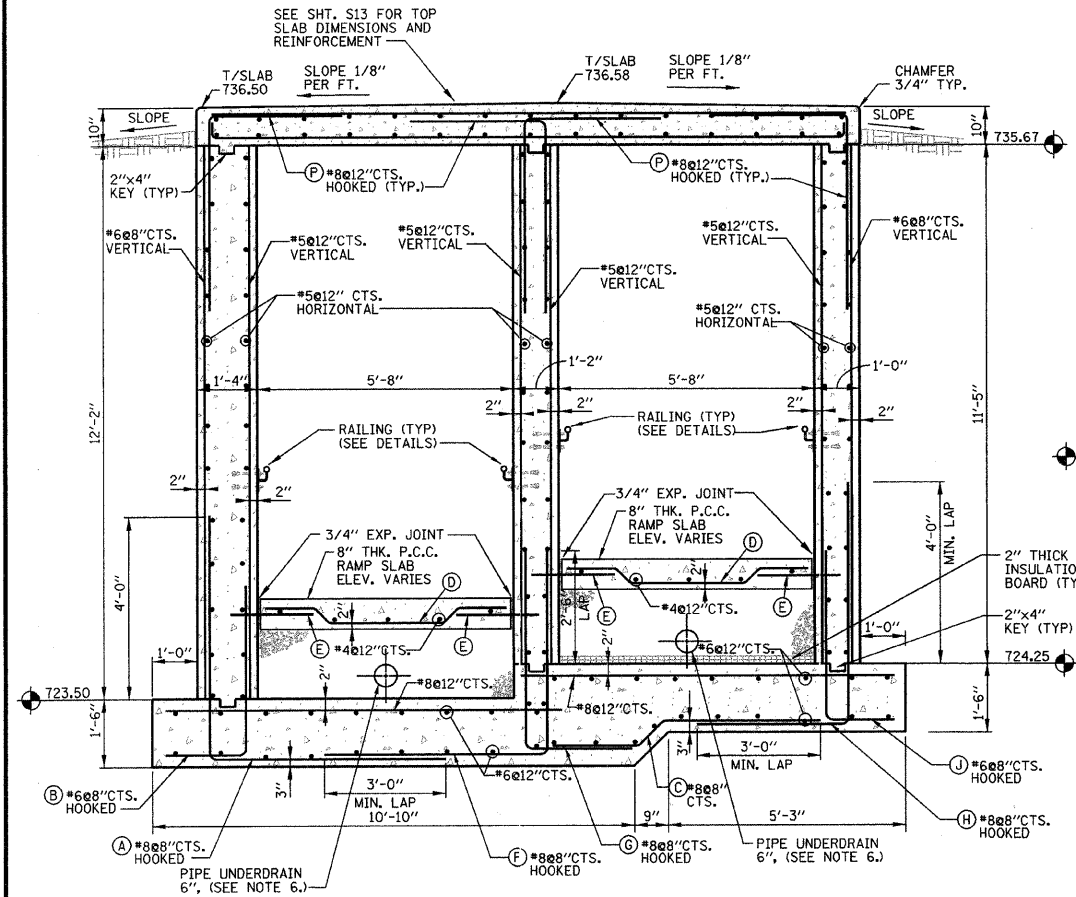
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| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | S.S. | | | | |

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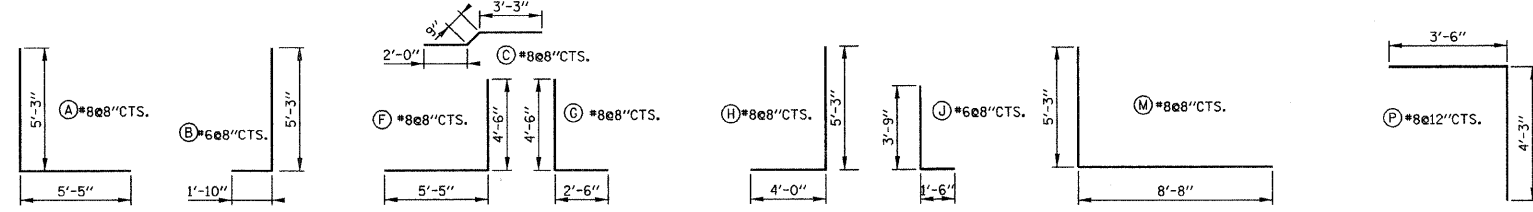
PROJECT
PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

SHEET TITLE
NORTH RAMP SECTIONS AND DETAILS

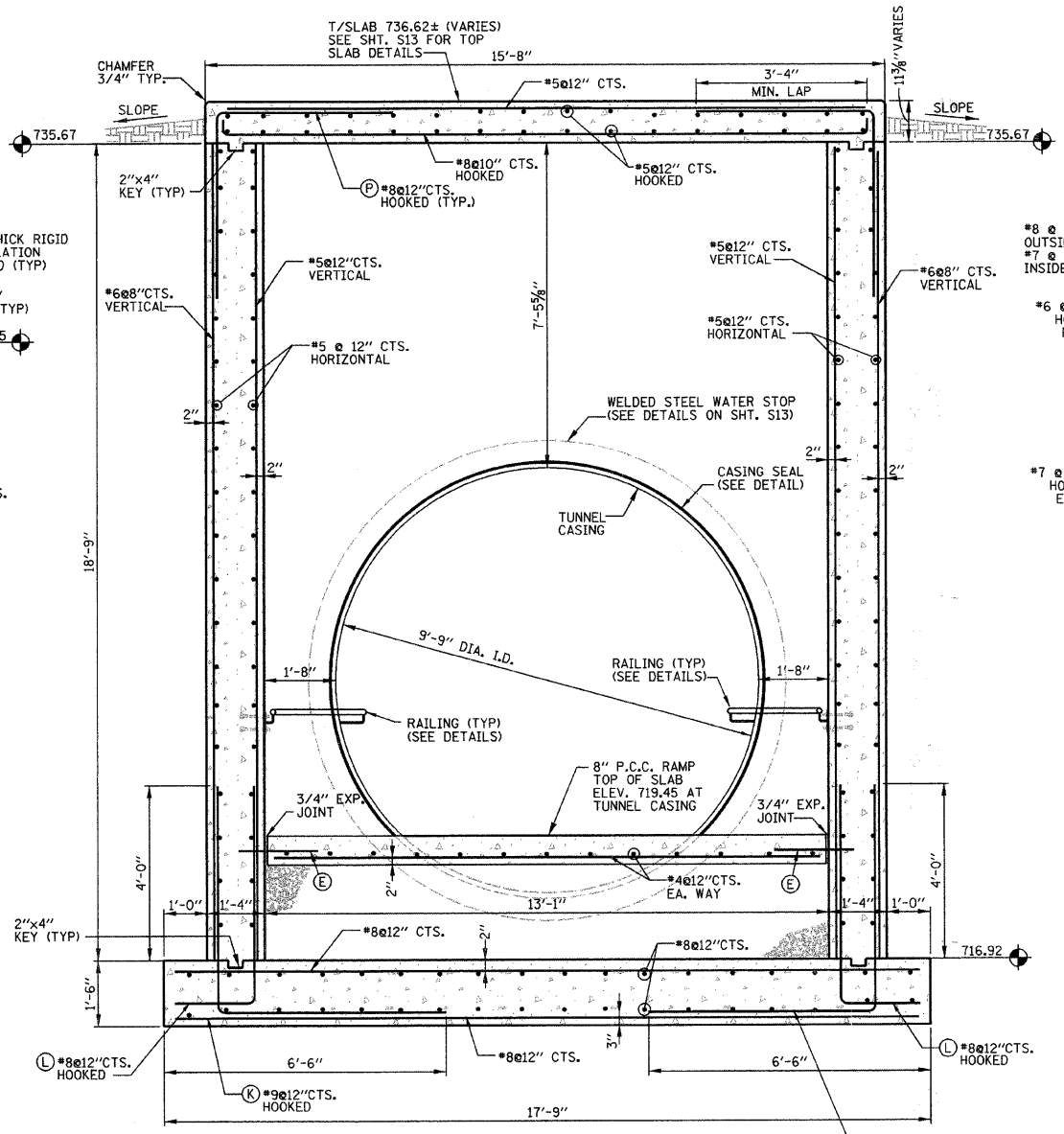
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| | DATE | Of S16 |
| | DEC. 19, 2008 | |



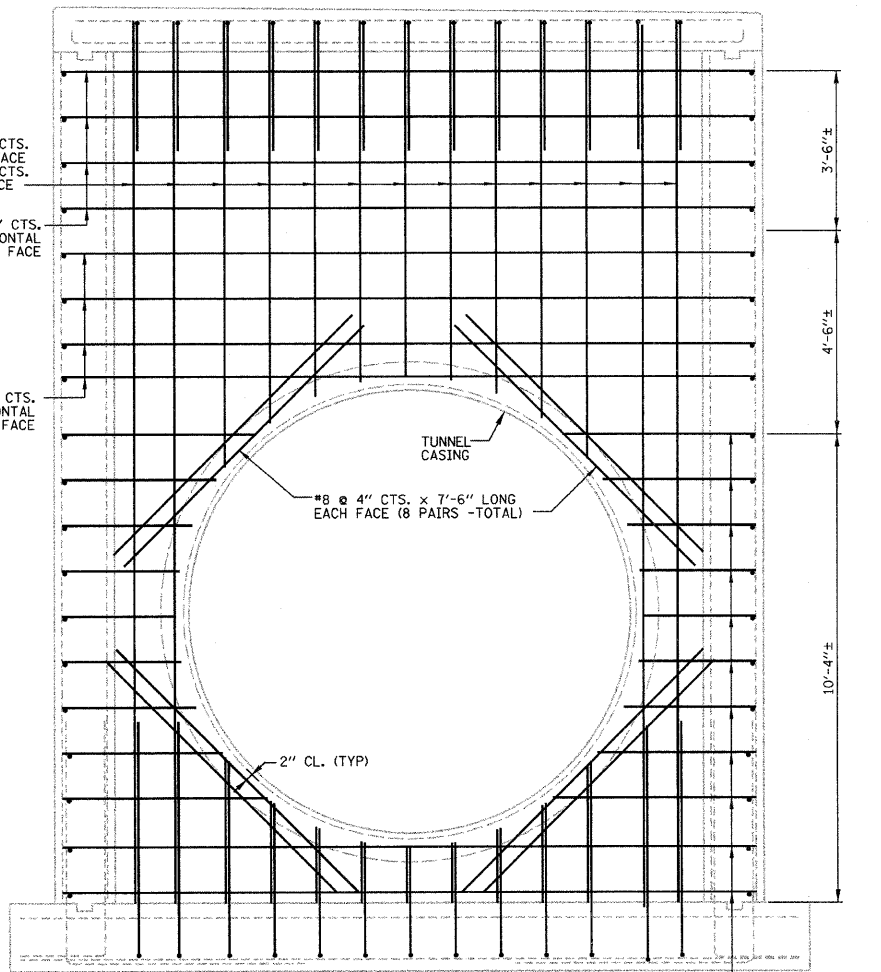
SECTION 10
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S5



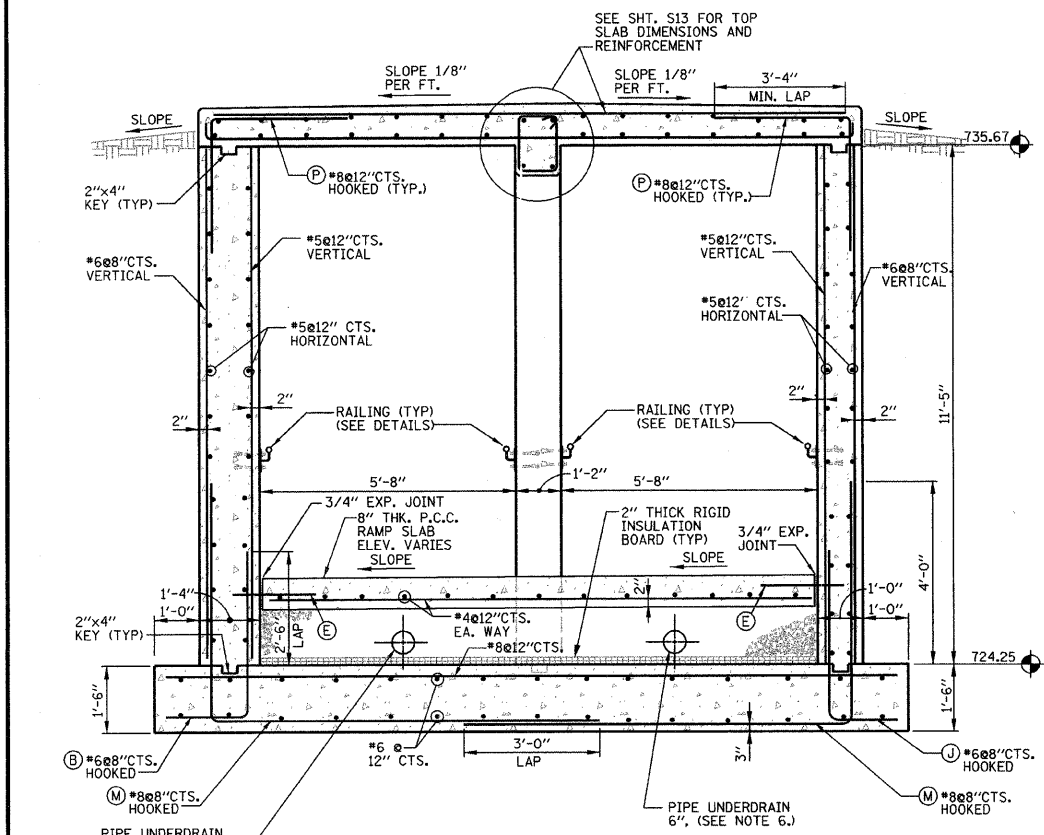
TYPICAL REINFORCEMENT DETAILS
SCALE: 1/4" = 1'-0"



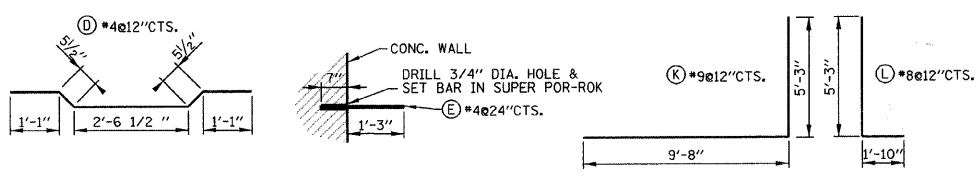
SECTION 12
SCALE: 1/2" = 1'-0"
S5 S13



ELEVATION E
SCALE: 1/2" = 1'-0"
S5



SECTION 11
SCALE: 1/2" = 1'-0"
S5



TYPICAL REINFORCEMENT DETAILS
SCALE: 1/2" = 1'-0"

- NOTES:**
- ALL CONCRETE SHALL BE CLASS "SI".
 - ALL REBAR CLEARANCE DIMENSIONS ARE CLEAR COVER (NOT TO THE CENTER OF THE BAR).
 - ALL CONCRETE WALL SURFACES TO BE EXPOSED IN THE FINAL CONDITION SHALL HAVE Voids FILLED WITH NON-SHRINK GROUT AND BE RUBBED SMOOTH. EXPOSED WALL SURFACES SHALL THEN BE FINISHED WITH A GLOSS EPOXY LIGHT GRAY PROTECTIVE COATING (TREMCO OR APPROV. EQUAL) ACCORDING TO THE SPECIFICATIONS TO A HEIGHT OF SIX INCHES BELOW THE FINISHED GRADE ELEVATION.
 - ALL CONCRETE SURFACES THAT WILL BE IN CONTACT WITH EARTH BACKFILL AND / OR PAVEMENT SHALL BE PROVIDED WITH WATERPROOF TAR EPOXY PAINT COATING ON EXTERIOR OF CONCRETE WALLS TO A HEIGHT OF 6 INCHES BELOW THE FINISHED GRADE ELEVATION.
 - RAMP SURFACES AND TUNNEL FLOOR MEMBRANE CURING SHALL BE APPLIED AS SPECIFIED IN SECTION 722 OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION. W.R. MEADOWS VOCOMP-20 CURE & SEAL, OR APPROVED EQUAL, SHALL BE USED PER MANUFACTURER'S SPECIFICATIONS. FINISHED SURFACES SHALL RECEIVE A LIGHT BROOM FINISH AT RIGHT ANGLES TO THE EDGES OF THE RAMP. EXPANSION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED PER I.D.O.T. STD. 420001-07 WHERE SHOWN ON THE PLANS.
 - PIPE UNDERDRAIN SHALL BE PERFORATED CORRUGATED POLYETHYLENE TUBING WITH FILTER SOCK PER I.D.O.T. 1040.04
 - SEE SHT. S7 FOR NORTH RAMP BILL OF MATERIALS.

1/8/2009 4:32:43 PM N:\DRN\MP\451 SHEETS STRUCTURAL\WF451-S11-NRAMP-SECT.DGN

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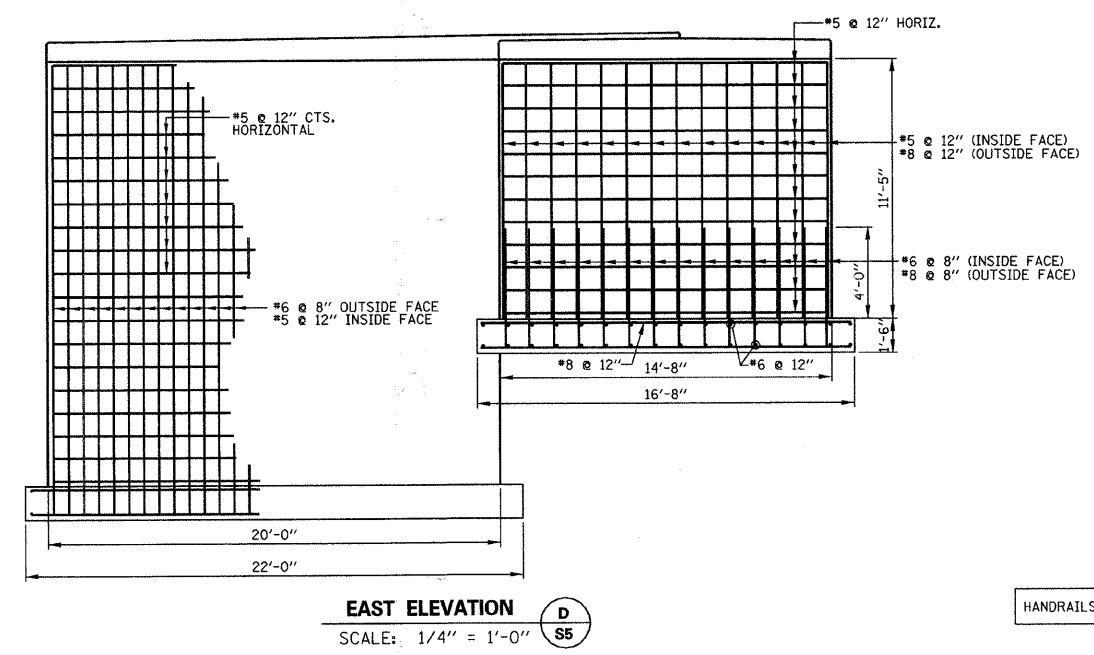
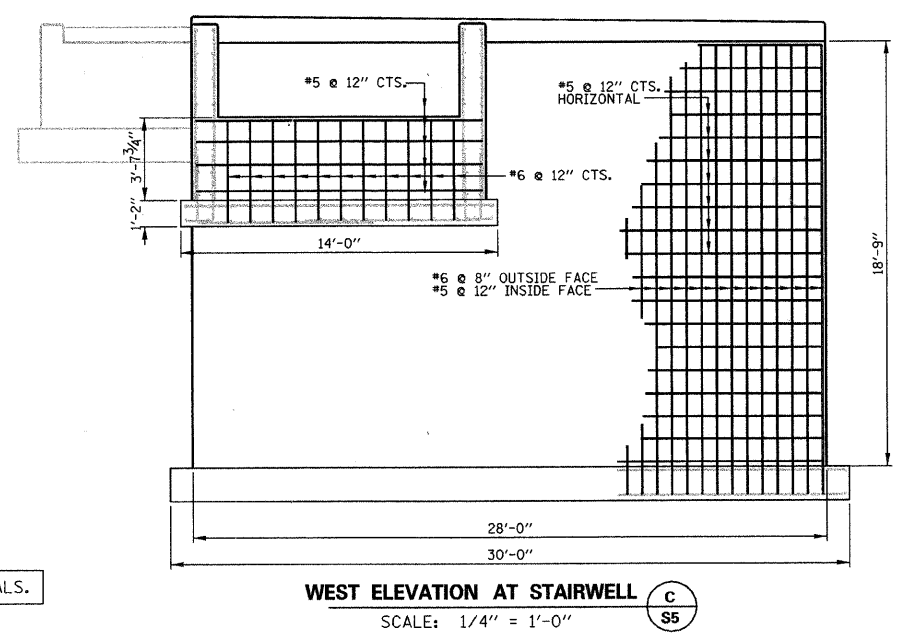
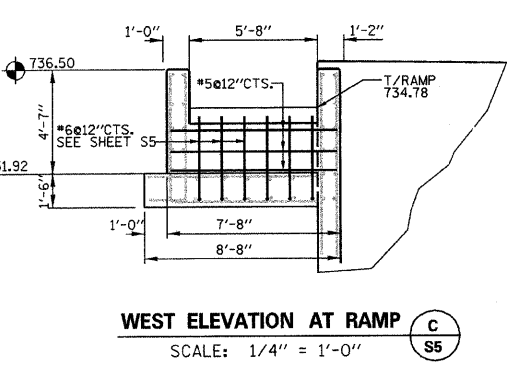
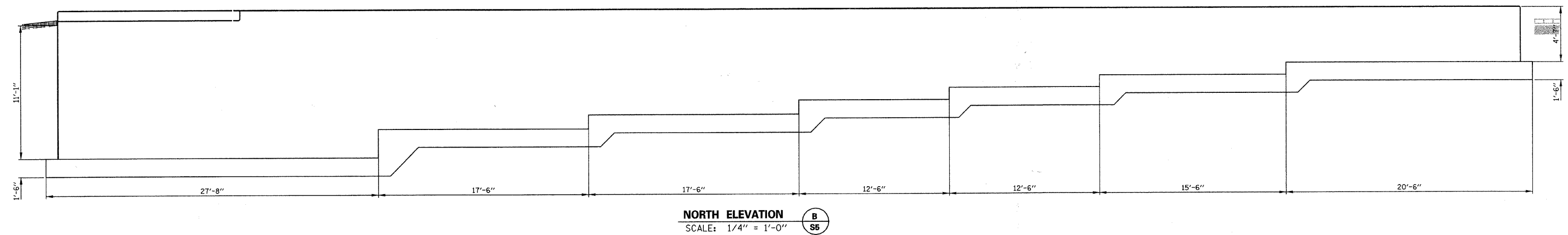
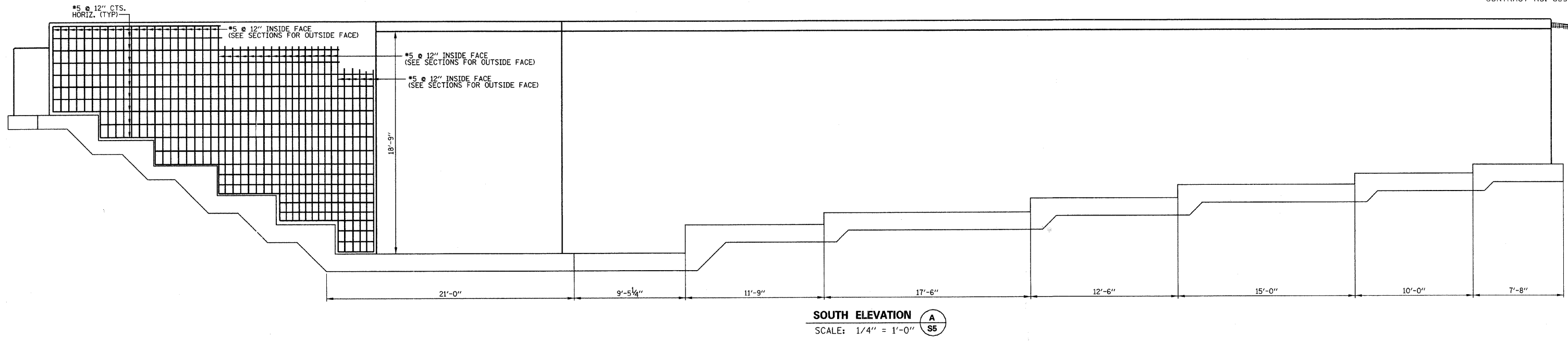
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| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | S.S. | | | | |

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Telephone (630) 232-0927 - Fax (630) 232-1629

PROJECT
PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

SHEET TITLE
NORTH RAMP SECTIONS AND DETAILS

| | | |
|-------|---------------|----------------|
| SCALE | PROJECT NO. | SHEET |
| NOTED | WF-451 | No. S11 |
| | DATE | Of S16 |
| | DEC. 19, 2008 | |



SEE SHT. S7 FOR NORTH RAMP BILL OF MATERIALS.

HANDRAILS AND RAILINGS ARE NOT SHOWN ON THESE VIEWS

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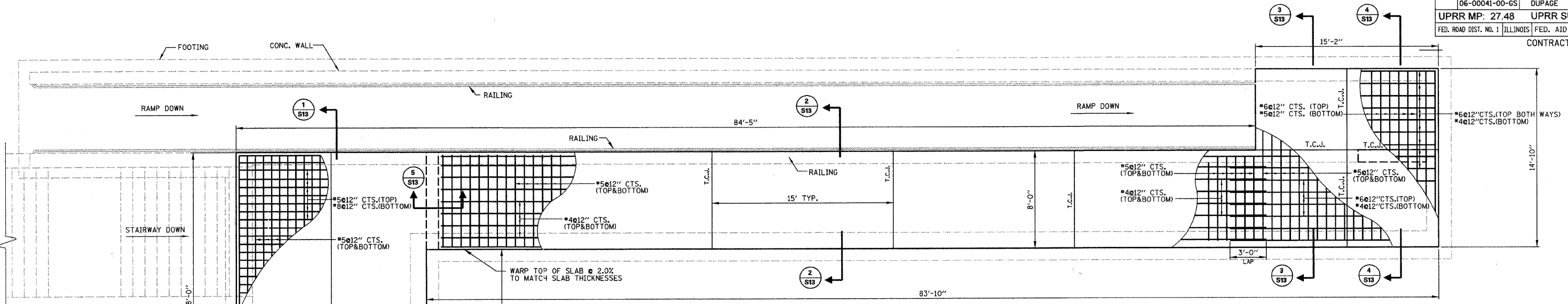
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| Drawn | D.B.E. | | | | |
| Checked | S.S. | | | | |

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 IL P.D.F. LICENSE NO. 184-000895
 324 WEST STATE STREET - GENEVA, ILLINOIS 60134
 Telephone (630) 232-0827 - Fax (630) 232-1629

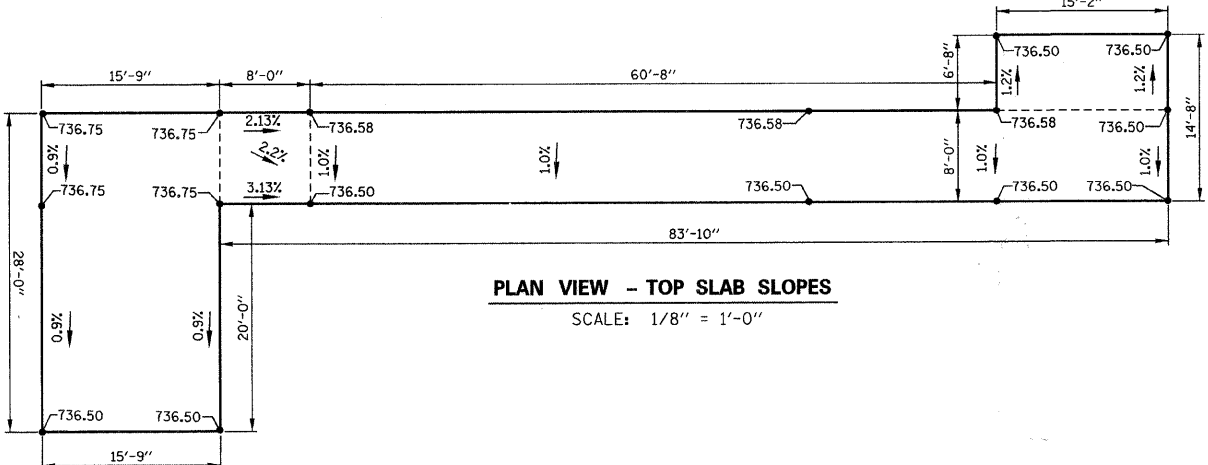
PROJECT: PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

SHEET TITLE: NORTH RAMP WALL ELEVATIONS & DETAILS

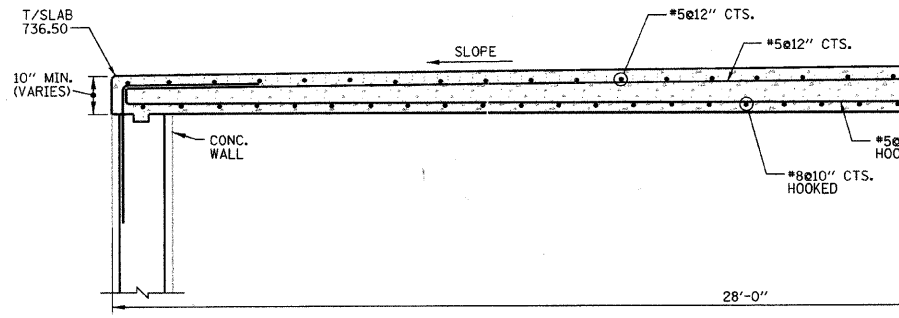
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| | DATE: DEC. 19, 2008 | Of S16 |



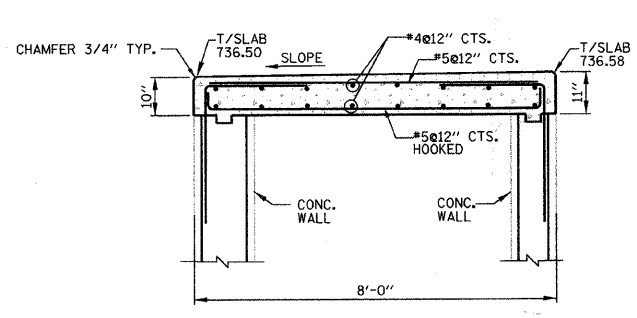
**PLAN VIEW TOP SLAB
 (TOP & BOTTOM REINFORCEMENT)**
 SCALE: 1/4" = 1'-0"



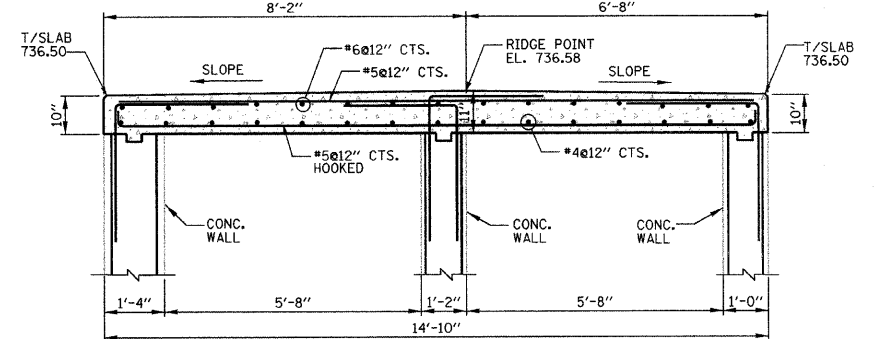
PLAN VIEW - TOP SLAB SLOPES
 SCALE: 1/8" = 1'-0"



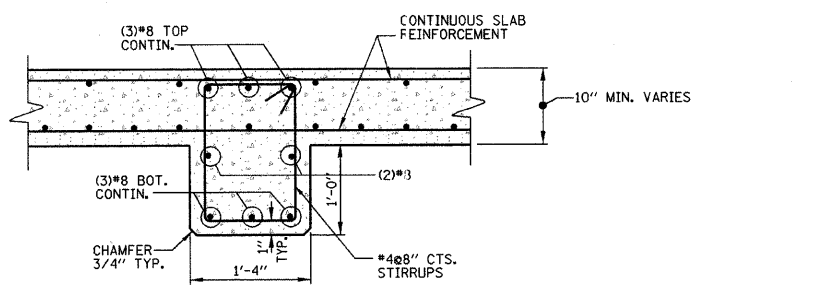
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 SCALE: 1/2" = 1'-0"



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

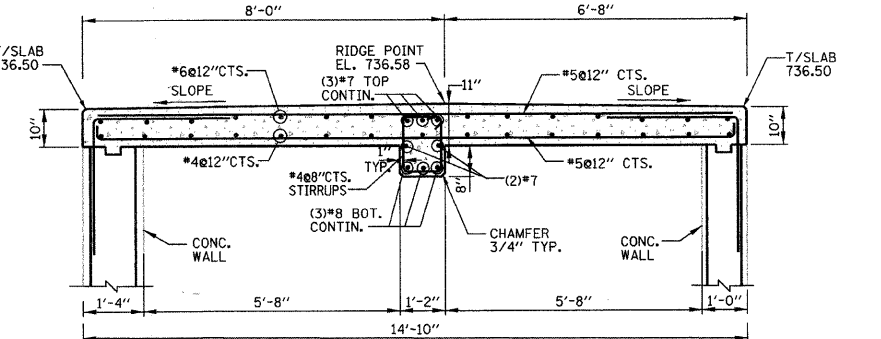


SECTION 3
 SCALE: 1/2" = 1'-0"



SECTION 5
 SCALE: 1" = 1'-0"

- NOTES:**
1. ALL CONCRETE SHALL BE CLASS "SI".
 2. ALL REBAR CLEARANCE DIMENSIONS ARE CLEAR COVER (NOT TO THE CENTER OF THE BAR).
 3. UNDERSIDE SURFACE OF SLAB TO BE EXPOSED IN THE FINAL CONDITION SHALL HAVE Voids FILLED WITH NON-SHRINK GROUT AND BE RUBBED SMOOTH. EXPOSED SURFACES SHALL THEN BE FINISHED WITH A GLOSS EPOXY LIGHT GRAY PROTECTIVE COATING (TNEPEC OR APPROV. EQUAL) ACCORDING TO THE SPECIFICATIONS.
 4. ALL CONCRETE SURFACES THAT WILL BE IN CONTACT WITH EARTH BACKFILL AND / OR PAVEMENT SHALL BE PROVIDED WITH WATERPROOF TAR EPOXY PAINT COATING ON EXTERIOR OF CONCRETE WALLS TO A HEIGHT OF 6 INCHES BELOW THE FINISHED GRADE ELEVATION.
 5. SURFACE OF SLAB: MEMBRANE CURING SHALL BE APPLIED AS SPECIFIED IN SECTION 722 OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION. W.R. MEADOWS VOCOMP-20 CURE & SEAL, OR APPROVED EQUAL, SHALL BE USED PER MANUFACTURER'S SPECIFICATIONS. FINISHED SURFACES SHALL RECEIVE A LIGHT BROOM FINISH AT RIGHT ANGLES TO THE EDGES. CONTRACTION JOINTS SHALL BE CONSTRUCTED AT 15'-0" MIN. INTERVALS (OR AS OTHERWISE SHOWN ON THE PLAN) PER I.D.O.T. STD. 420001-07.
 6. SEE SHT. S7 FOR NORTH RAMP BILL OF MATERIALS.
 7. T.C.J. = TRANSVERSE CONTRACTION JOINTS PER IDOT STD. 420001-07.



SECTION 4
 SCALE: 1/2" = 1'-0"

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| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | S.S. | | | | |

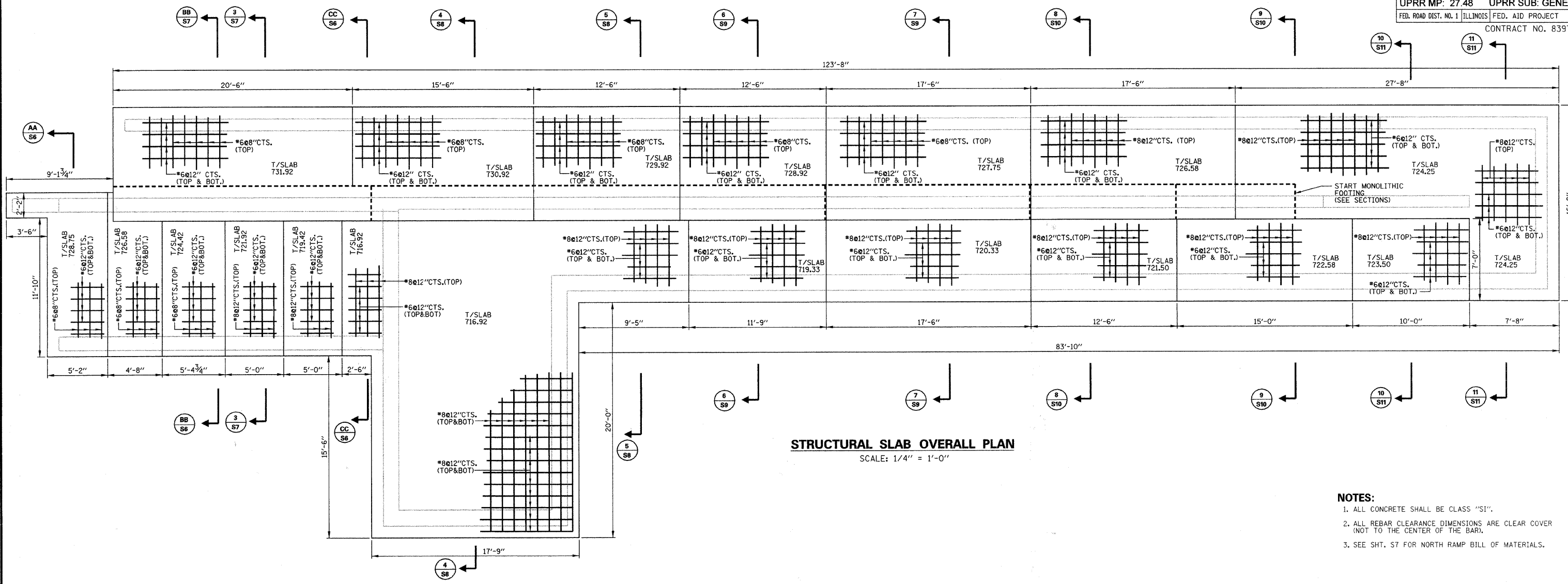
REMPE-SHARPE
 CONSULTING ENGINEERS
 IL P.D.F. LICENSE NO. 184-000895
 324 WEST STATE STREET - GENEVA, ILLINOIS 60134
 Telephone (630) 232-0827 - Fax (630) 232-1629

PROJECT: PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS

SHEET TITLE: NORTH RAMP TOP SLAB PLAN & DETAILS

| SCALE | PROJECT NO. | SHEET |
|-------|---------------|---------|
| NOTED | WF-451 | No. S13 |
| | DATE | Of S16 |
| | DEC. 19, 2008 | |

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STRUCTURAL SLAB OVERALL PLAN
 SCALE: 1/4" = 1'-0"

- NOTES:**
1. ALL CONCRETE SHALL BE CLASS "SI".
 2. ALL REBAR CLEARANCE DIMENSIONS ARE CLEAR COVER (NOT TO THE CENTER OF THE BAR).
 3. SEE SHT. S7 FOR NORTH RAMP BILL OF MATERIALS.

GENERAL NOTES FOR ALL REINFORCED CONCRETE & TUNNEL WORK:

- PART 1. GENERAL**
1. ALL NOTES GIVEN ON THESE DRAWINGS ARE SUPPLEMENT TO THE PROJECT SPECIFICATIONS AND INTENDED NOT TO REPLACE THEM. IN THE EVENT OF A CONFLICT BETWEEN THE NOTES AND THE PROJECT SPECIFICATIONS, CONTRACTOR TO OBTAIN CLARIFICATION IN WRITING.
 2. ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE AND LOCAL BUILDING CODES AND ALL OTHER PERTINENT CODES REGULATIONS AND ORDINANCES.
 3. DRAWINGS ARE NOT TO BE USED FOR SHOP DETAILING OR FOR CONSTRUCTION UNLESS SPECIFICALLY STAMPED BY THE STRUCTURAL ENGINEER FOR "DETAILING" OR "FOR CONSTRUCTION". THESE DRAWINGS SHALL NOT BE REPRODUCED FOR THE PURPOSE OF USING THEM AS SHOP DETAIL DRAWINGS. DO NOT SCALE DRAWINGS. USE NUMERICAL DIMENSIONS SHOWN ON THE DRAWINGS.
 4. WALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE COORDINATED BY THE CONTRACTOR WITH CIVIL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL DIMENSIONS ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS AND TRADES. NOTIFY ENGINEER OF ANY DISCREPANCIES THAT MAY EXIST.
 5. UNLESS OTHERWISE SHOWN OR NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING LOCATION AND PLACEMENT OF ANY INSERTS, PIPE SLEEVES, HOLES OR ANCHOR BOLTS THAT ARE REQUIRED BY THE MECHANICAL OR ELECTRICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR APPROVED SHOP DRAWINGS FOR REQUIREMENTS.
 6. UNLESS OTHERWISE NOTED, ALL DETAILS, SECTIONS AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATION ELSEWHERE.
 7. THE CONTRACTOR SHALL FURNISH AND PROVIDE ALL NECESSARY BRACING THAT IS REQUIRED TO PROPERLY CONSTRUCT AND ERECT THE STRUCTURES.
 8. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SHEETING AND SHORING AGAINST EXISTING STRUCTURES AS REQUIRED SO THAT THEY ARE NOT ENDANGERED BY THIS CONSTRUCTION.
 9. PLANS, SECTION AND DETAILS SHALL NOT BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, FIT OR MATERIAL, ETC.
 10. ALL EXISTING CONDITIONS AND ALL RELATED DIMENSIONS INDICATED BY CONTRACT DOCUMENTS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION, ERECTION AND/OR CONSTRUCTION. ANY CONDITION THAT DIFFERS FROM THAT INDICATED BY CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION AND/OR CONSTRUCTION.
- PART 2. MATERIALS**
1. REINFORCING STEEL
 - 1.1 ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615-60 (60000 PSI YIELD STRESS) AND SHALL BE USED THROUGHOUT THE JOB, WITH THE EXCEPTION OF STEEL USED IN WELDED CONNECTIONS, WHICH SHALL CONFORM TO ASTM A708-60. ALL WELDED WIRE FABRICS SHALL BE ASTM A185.
- PART 3. TESTING**
1. ALL INSPECTION SHALL BE MADE AS SPECIFIED BELOW.
 - 1.1 ALL CONCRETE TO HAVE COMPRESSIVE STRENGTH OF 5000 PSI.
 - 1.2 ALL WELDS SHALL BE TESTED IN ACCORDANCE WITH AMER CAN WELDING SOCIETY (AWS) STANDARDS.
 2. ALL MATERIAL TESTS SHALL BE MADE AS PER THE SPECIFICATIONS. CONCRETE COMPRESSIVE STRENGTH TESTS SHALL BE MADE FOR ALL CONCRETE STRENGTHS. THE APPROVED TESTING LABORATORY SHALL MAKE ALL TESTING. ALL TEST REPORTS SHALL BE SUBMITTED TO THE DESIGNATED METRA REPRESENTATIVE.
- PART 4. REINFORCED CONCRETE**
1. ALL REINFORCED CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ACI BUILDING CODE 318-05. ALL SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS SHALL BE PER ACI 301 AND APPLICABLE LOCAL BUILDING CODE.
 2. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF THE CONCRETE MIX. IN SUCH CASES, HOPPER OR VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCOMPRESSED FALL OF CONCRETE SHALL NOT EXCEED SIX (6) FEET AND A SUFFICIENT NUMBER SHALL BE USED TO INSURE THE CONCRETE BEING KEPT LEVEL AT ALL TIMES.
 3. THE ARRANGEMENT OF ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 318 MANUAL OF STANDARD PRACTICE FOR DETAILING OR REINFORCED CONCRETE STRUCTURES.
- PART 5. FOUNDATION**
1. ALL SUBSTRUCTURE WORK SHALL BE PERFORMED ACCORDING TO THE RECOMMENDATIONS PREPARED BY THE GEOTECHNICAL CONSULTANTS.
 2. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF SOIL RETENTION SYSTEM DURING THE CONSTRUCTION.
 3. THE WALLS SHALL BE BACKFILLED USING GRANULAR SOILS AND THE FINAL 3 TO 4 FEET OF BACK FILL SHALL BE SILTY CLAY.
 4. THE FILL MATERIALS SHALL BE PLACED IN LAYERS OF 6 INCHES. EACH LAYER SHALL BE COMPACTED TO A MINIMUM OF 90% COMPACTION BASED ON ASTM D-1557 PRIOR TO PLACEMENT OF SUCCEEDING LAYERS.
 5. FILL ON BOTH SIDES OF THE RETAINING WALLS SHALL BE PLACED SIMULTANEOUSLY IN SUCH A MANNER THAT THE MAXIMUM DIFFERENCE IN FILL LEVELS DOES NOT EXCEED 3'-0" UNTIL THE LOWER SIDE IS AT THE FOUNDATION LEVEL.
 6. ALL FOUNDATION WALLS SHALL BE ADEQUATELY BRACED TO WITHSTAND BACKFILLING EARTH PRESSURE, WIND PRESSURE, AND CONSTRUCTION LOADS UNTIL FINAL GRADES ON BOTH SIDES OF THE WALL ARE REACHED AND ALL PARTS OF THE STRUCTURE ARE INSTALLED AND HAVE REACHED THE DESIGN STRENGTH.
 7. REINFORCING STEEL AND CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATION FOR FOUNDATION ELEMENTS.
 8. THOROUGHLY CLEAN REINFORCING STEEL IMMEDIATELY PRIOR TO PLACING CONCRETE.
 9. DO NOT CAST CONCRETE ON OR AGAINST SUBGRADE MATERIAL CONTAINING FROST, WATER OR SNOW.
- PART 6. STRUCTURAL STEEL**
1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION AND STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION OF AMERICAN WELDING SOCIETY.
- PART 7. DESIGN SPECIFICATIONS**
1. MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, 9TH EDITION AND A.R.E.M.A.
 2. SEE PROJECT MANUAL FOR COMPLETE LIST OF OTHER APPLICABLE DESIGN STANDARDS.
- PART 8. CONSTRUCTION SAFETY**
1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH ALL APPLICABLE VILLAGE, COUNTY, STATE, AND FEDERAL LAWS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ADOPTED PURSUANT THERETO. THE CONTRACTOR SHALL COMPLY WITH ALL METRA AND UPRR SAFETY STANDARDS AND LAWS.
 2. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS, OR OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND GIN POLES, ETC.
 3. AT THE CONTRACTOR'S OWN EXPENSE, PROPERLY QUALIFIED PERSONS SHALL BE ENGAGED TO DETERMINE WHERE AND HOW TEMPORARY PRECAUTIONARY MEASURES SHALL BE USED AND INSPECT THE SAME IN THE FIELD. OBSERVATION VISITS TO THE SITE BY THE FIELD REPRESENTATIVE OF THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
 4. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. AS PART OF THEIR RESPONSIBILITY, THE CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED STRUCTURAL ENGINEER TO DESIGN AND SUPERVISE ANY SCAFFOLDING FOR WORKMEN AND ALL SHORING OF FORMS AND ELEMENTS OF THE CONSTRUCTION.
- PART 9. TUNNEL CONSTRUCTION NOTES**
1. ALL CONSTRUCTION SAFETY MEASURES OUTLINED IN PART 8 ABOVE SHALL BE COMPLIED WITH.
 2. ALL TEMPORARY SHORING STRUCTURES, REACTION AND THRUST BLOCK, INCLUDING SHEET PILES, BATTER PILES IF REQUIRED, SOIL BORING STEEL FRAME, ETC. REQUIRED FOR THE TUNNEL JACKING SHALL BE DESIGNED BY THE CONTRACTOR'S STRUCTURAL ENGINEER AND SUBJECT TO APPROVAL OF THE ENGINEER. ALL RELATED CALCULATIONS/SKETCHES MUST BE SEALED AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS.
 3. GRADE OF CONCRETE FOR THE CAST IN PLACE CONCRETE TUNNEL FLOOR SHALL BE OF FC = 5000 PSI AT 28 DAYS.
 4. FABRICATION OF REINFORCEMENT AND PLACEMENT OF CONCRETE AS PER ACI CODE, LATEST EDITION.
 5. STEEL SHEET PILES SHALL BE AS PER ASTM A-328, LATEST EDITION.
 6. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36, LATEST EDITION.
 7. FABRICATION AND ERECTION OF STEEL SHALL BE AS PER AISC SPECIFICATION.
- PART 10. CONSTRUCTION SAFETY**
8. ALL WELDINGS SHALL BE AS PER AWS CODE
 9. MONITOR ALIGNMENT AND LEVEL OF THE RAILROAD TRACK DURING THE CONSTRUCTION. MONITORING SCHEDULE SHALL BE AS DIRECTED BY METRA AND THE UNION PACIFIC RAILROAD.
 10. SHOULD ANY MOVEMENT OCCUR ON THE RAILROAD TRACKS BEYOND THE ACCEPTABLE LIMITS OF METRA/UPRR, CONTRACTOR SHOULD STOP JACKING IMMEDIATELY AND REVISE JACKING PROCEDURES SO THAT NO MOVEMENT OCCURS.
 11. DEWATER THE EXCAVATION AS REQUIRED, TO MAINTAIN A DRY CONDITION.
 12. THE JACKING SHIELD, SHOWN ON THE DRAWING IS SCHEMATIC. CONTRACTOR SHALL SUBMIT THE DETAIL PROCEDURES FOR JACKING FOR REVIEW BY ENGINEER PRIOR TO THE STARTING OF ANY CONSTRUCTION OF TUNNEL.
 13. CONTRACTOR MUST INCLUDE IN HIS BID THE AMOUNT OF BENTONITE SLURRY INJECTED TO COVER A SURFACE AREA OF 3,400 SQ. FT. AND VOIDS IN SOIL CREATED DURING TUNNEL CONSTRUCTION.
 14. ALL SHEET PILES SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED ON THE DRAWING.

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| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | S.S. | | | | |

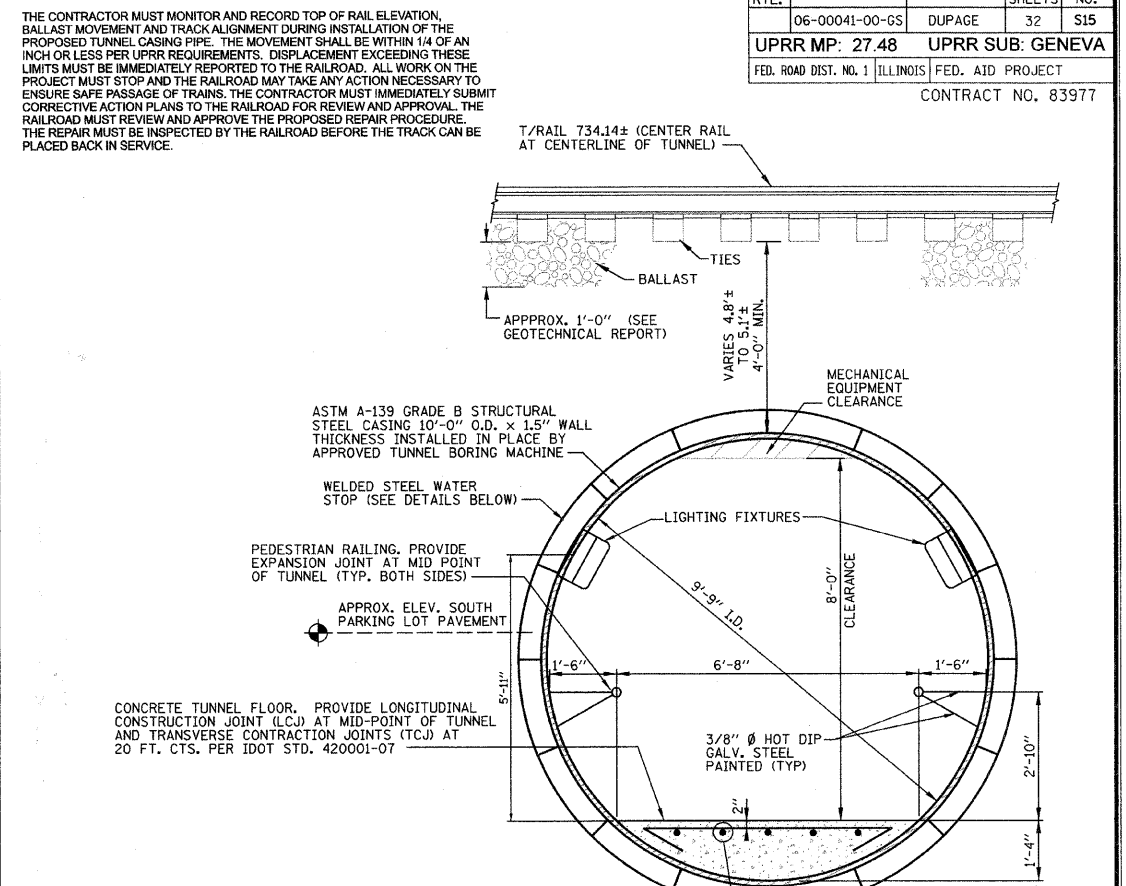
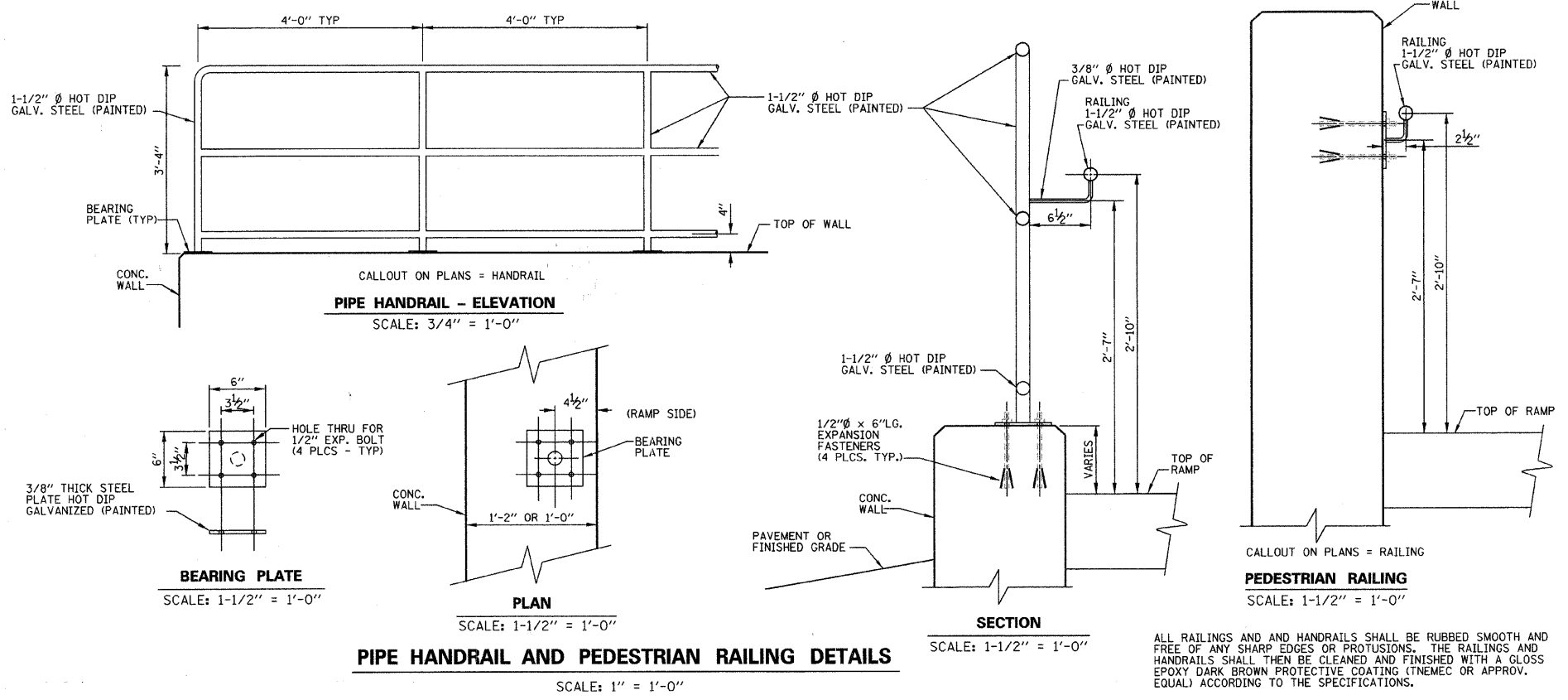
REMPE-SHARPE CONSULTING ENGINEERS
 IL P.D.F. LICENSE NO. 184-000895
 324 WEST STATE STREET - GENEVA, ILLINOIS 60134
 Telephone (630) 232-0827 - Fax (630) 232-1629

PROJECT
 PEDESTRIAN UNDERPASS AT METRA STATION WINFELD, ILLINOIS

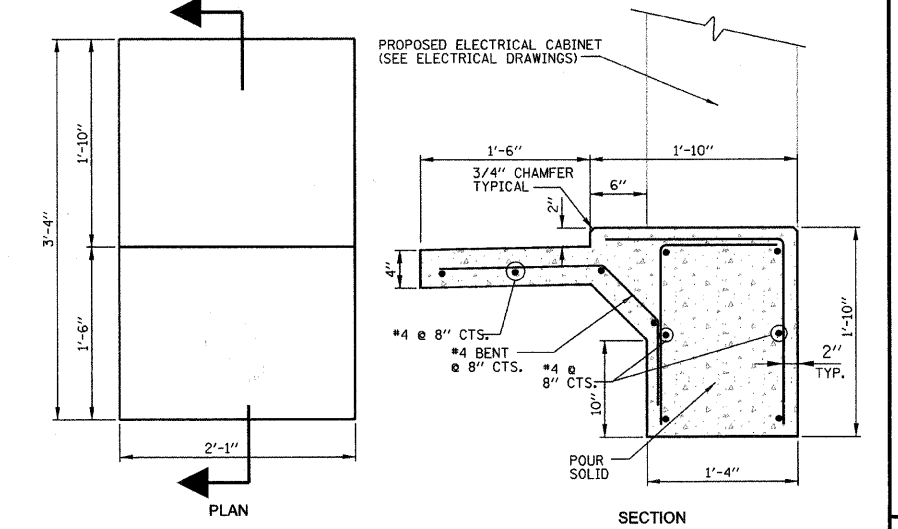
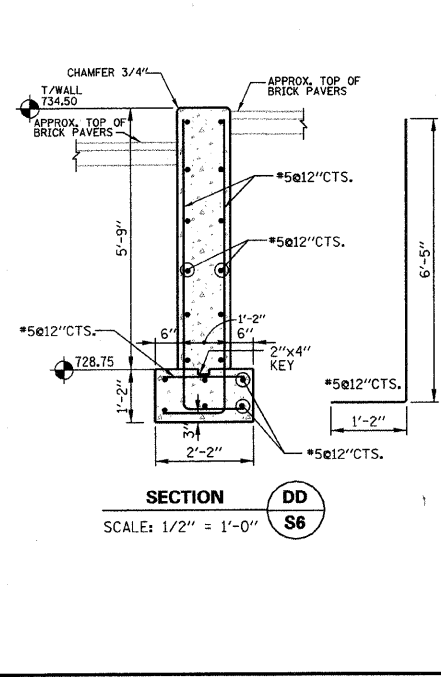
SHEET TITLE
 NORTH RAMP BOTTOM SLAB PLAN & STRUCTURAL BILL OF MATERIALS

| SCALE | PROJECT NO. | SHEET |
|-------|---------------|----------------|
| NOTED | WF-451 | No. S14 |
| | DATE | Of S16 |
| | DEC. 19, 2008 | |

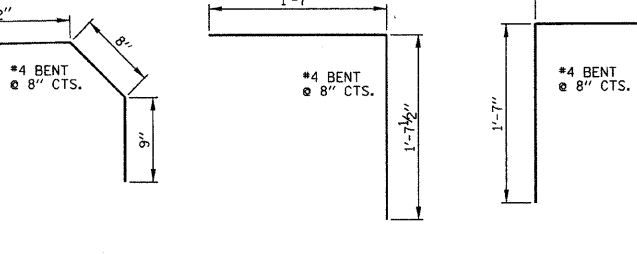
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 3-22-24 PH
 12/19/2008



- NOTES FOR DETAILS ON THIS SHEET:**
- ALL CONCRETE SHALL BE CLASS "SI".
 - ALL REBAR CLEARANCE DIMENSIONS ARE CLEAR COVER (NOT TO THE CENTER OF THE BAR).
 - ALL CONCRETE WALL SURFACES TO BE EXPOSED IN THE FINAL CONDITION SHALL HAVE Voids FILLED WITH NON-SHRINK GROUT AND BE RUBBED SMOOTH. EXPOSED WALL SURFACES SHALL THEN BE FINISHED WITH A GLOSS EPOXY LIGHT GRAY PROTECTIVE COATING (TNEC OR APPROV. EQUAL) ACCORDING TO THE SPECIFICATIONS TO A HEIGHT OF SIX INCHES BELOW THE FINISHED GRADE ELEVATION.
 - ALL CONCRETE SURFACES THAT WILL BE IN CONTACT WITH EARTH BACKFILL AND / OR PAVEMENT SHALL BE PROVIDED WITH WATERPROOF TAR EPOXY PAINT COATING ON EXTERIOR OF CONCRETE WALLS TO A HEIGHT OF SIX INCHES BELOW THE FINISHED GRADE ELEVATION.
 - RAMP SURFACES AND TUNNEL FLOOR: MEMBRANE CURING SHALL BE APPLIED AS SPECIFIED IN SECTION 722 OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION. W.R. MEADOWS VOCOMP-20 CURE & SEAL, OR APPROVED EQUAL, SHALL BE USED PER MANUFACTURER'S SPECIFICATIONS. FINISHED SURFACES SHALL RECEIVE A LIGHT BROOM FINISH AT RIGHT ANGLES TO THE EDGES OF THE RAMP. EXPANSION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED PER I.D.O.T. STD. 42001-07 WHERE SHOWN ON THE PLANS.
 - SEE SHT. S1 FOR TUNNEL BILL OF MATERIALS.
SEE SHT. S4 FOR SOUTH RAMP BILL OF MATERIALS.
SEE SHT. S7 FOR NORTH RAMP BILL OF MATERIALS.

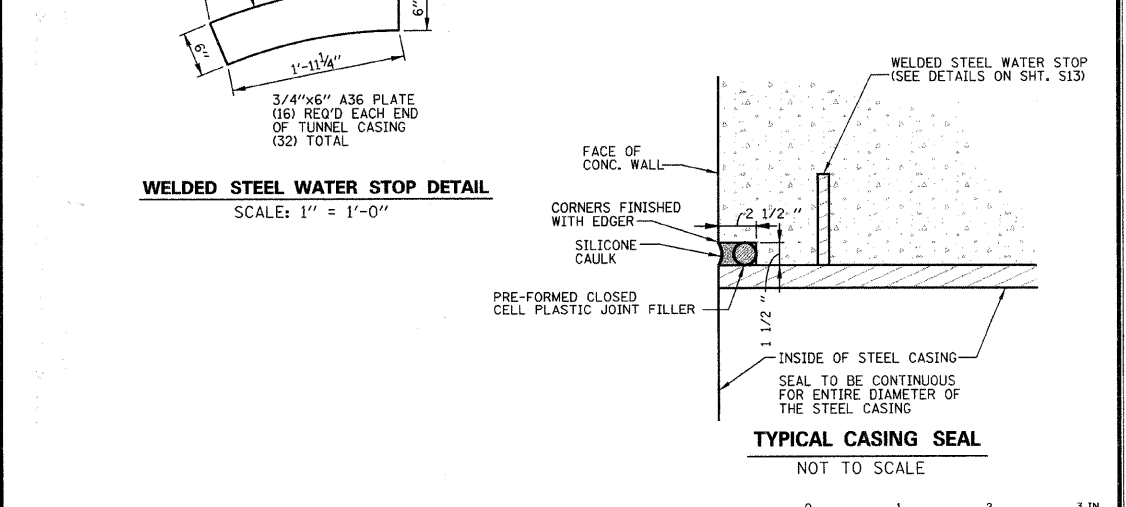
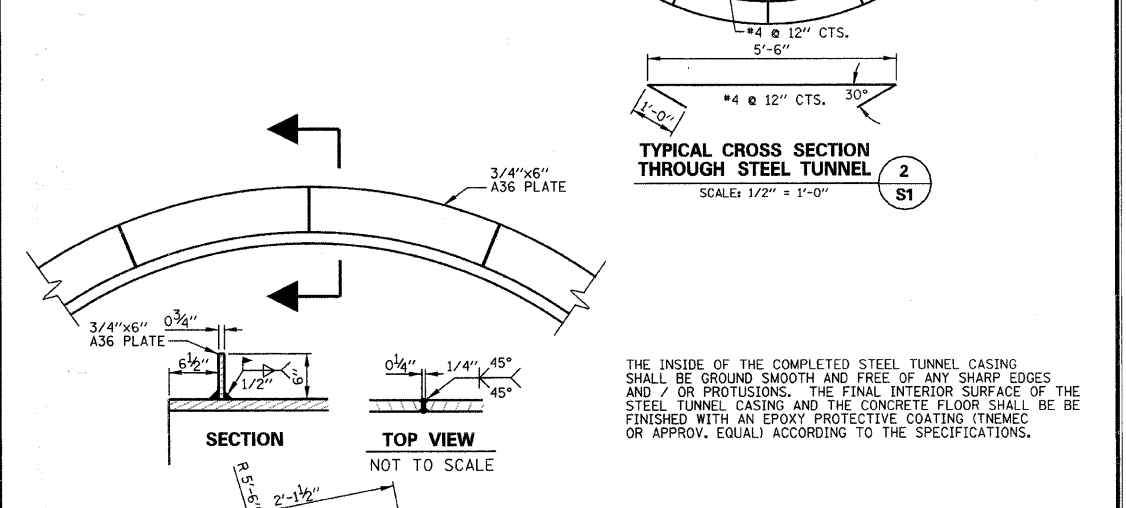
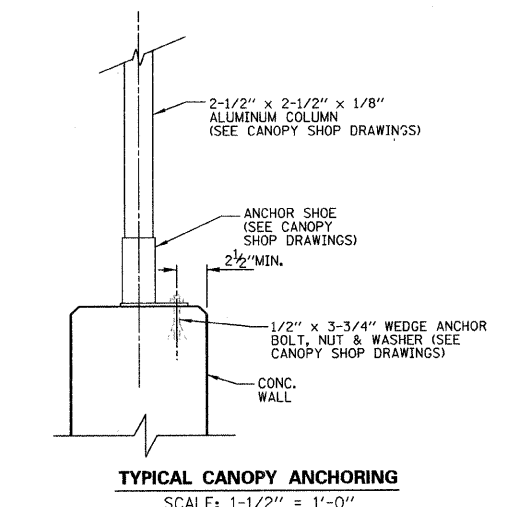


CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE ELECTRICAL SUB-CONTRACTOR FOR SCHEDULING THE CONSTRUCTION OF THE BASE SLAB.



| DESCRIPTION | UNIT | QUANTITY |
|--------------------|-------|----------|
| Concrete Structure | CU YD | 1 |
| Reinforcement Bars | POUND | 25 |

ELECTRICAL CABINET CONCRETE BASE
SCALE: 1" = 1'-0"



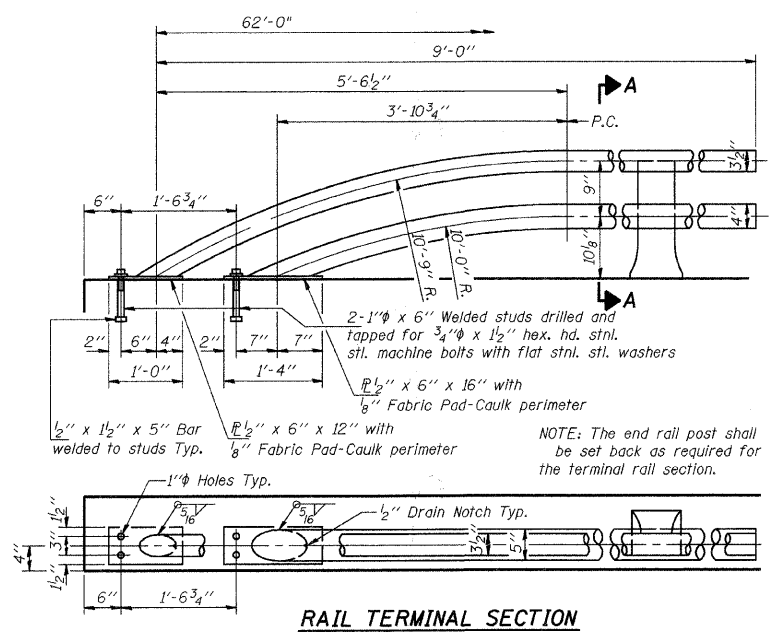
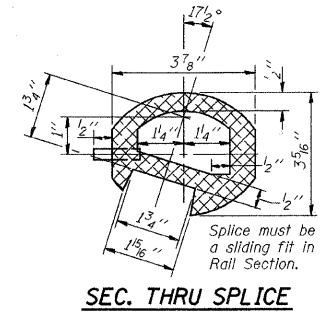
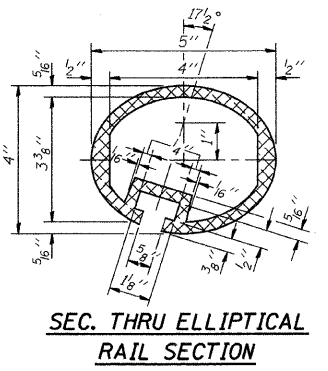
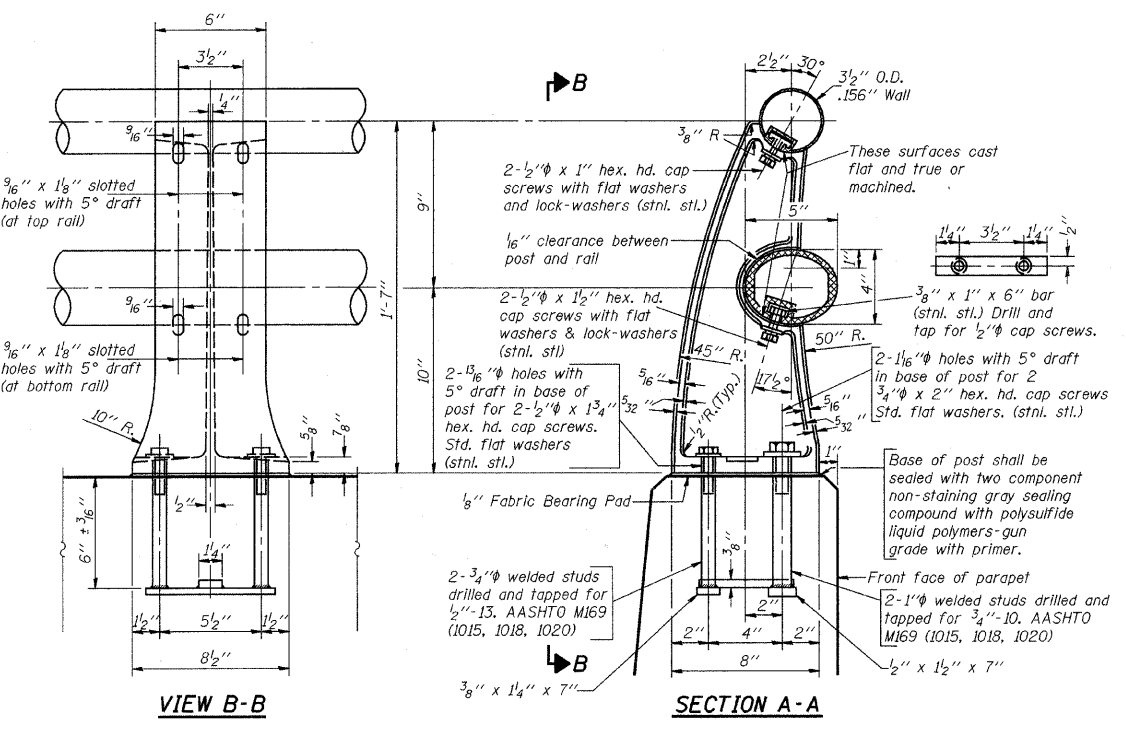
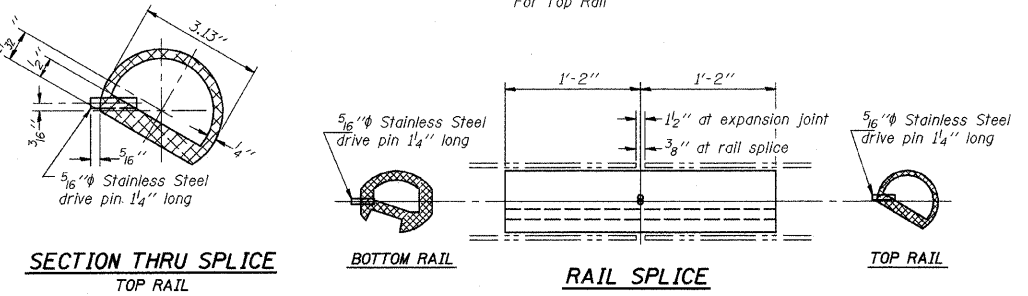
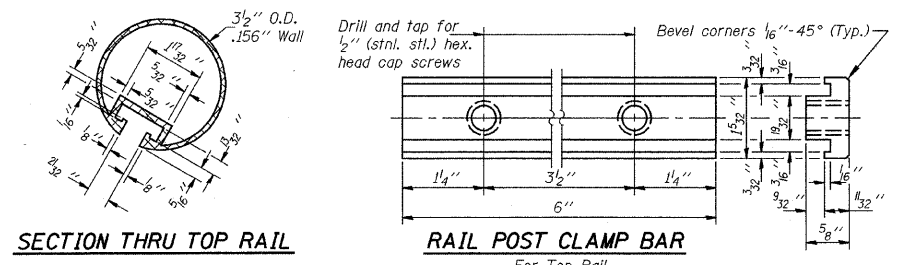
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| Design | J.B. | | | | | | |
| Drawn | D.B.E. | | | | | | |
| Checked | S.S. | No. | Date | Revisions | | By | |

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|--|--|--------------------|--|-------|---------------|----------------|
| REMPE-SHARPE CONSULTING ENGINEERS IL P.D.F. LICENSE NO. 184-000895 324 WEST STATE STREET - GENEVA, ILLINOIS 60134 Telephone (630) 232-0827 - Fax (630) 232-1029 | PROJECT | SHEET TITLE | | SCALE | PROJECT NO. | SHEET |
| | PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS | STRUCTURAL DETAILS | | NOTED | WF-451 | No. S15 |
| | | | | | DATE | OF S16 |
| | | | | | DEC. 19, 2008 | |

NOTES FOR TYPE L ALUMINUM RAILING

- ALL ALUMINUM ALLOY EXTRUDED RAIL SHALL BE SUPPLIED IN MODULAR LENGTHS OF 30 FEET, EXCEPT AT THE END OF BRIDGE OR OVER OPEN JOINTS IN BRIDGE DECK WHERE THE RAIL SHALL BE ATTACHED TO A MINIMUM OF 2 POSTS.
- ALL JOINTS IN RAIL SHALL BE SPLICED PER DETAIL. PROVIDE 1- 1/8" AND 2- 1/16" ALUMINUM SHIMS FOR 25% OF THE POSTS.
- RAIL ELEMENTS SHALL BE PARALLEL TO THE FINISHED TOP OF WALL. HIGH SPOTS SHALL BE GROUND DOWN AND LOW SPOTS SHALL BE SHIMMED AS REQUIRED.
- RAILING SHALL BE IN ACCORDANCE WITH SECTION 509 OF THE ILLINOIS ROAD AND BRIDGE STANDARD SPECIFICATIONS, EXCEPT AS NOTED, AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAL FOOT FOR ALUMINUM RAILING, TYPE L.
- ALUMINUM ALLOY RAIL SHALL CONFORM TO ASTM B221 ALLOY 6061-T6 OR 6351-T5 WITH MIN. YIELD 35 KSI, MIN. TENSILE 38 KSI, AND ELONGATION OF 10% IN 2 INCHES.
- SEE SHT. S4 FOR SOUTH RAMP BILL OF MATERIALS.



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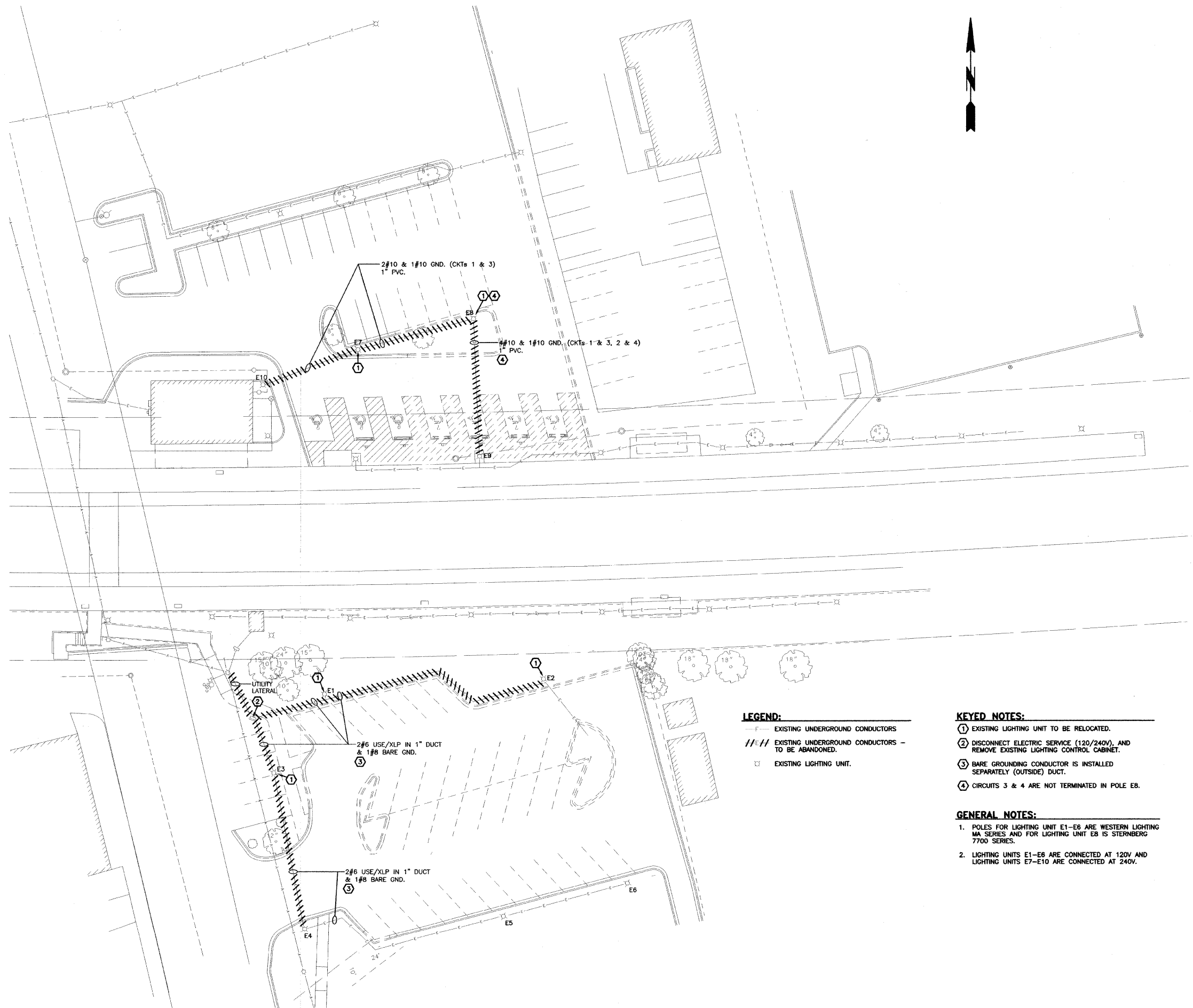
| ACTION | NAME | No. | Date | Revisions | By |
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| Design | J.B. | | | | |
| Drawn | D.B.E. | | | | |
| Checked | S.S. | | | | |

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PROJECT
**PEDESTRIAN UNDERPASS
 AT METRA STATION
 WINFIELD, ILLINOIS**

SHEET TITLE
STRUCTURAL DETAILS

| | | |
|-------|---------------|----------------|
| SCALE | PROJECT NO. | SHEET |
| NOTED | WF-451 | No. S16 |
| | DATE | Of S16 |
| | DEC. 19, 2008 | |



LEGEND:
 --- EXISTING UNDERGROUND CONDUCTORS
 // // EXISTING UNDERGROUND CONDUCTORS - TO BE ABANDONED.
 □ EXISTING LIGHTING UNIT.

KEYED NOTES:
 ① EXISTING LIGHTING UNIT TO BE RELOCATED.
 ② DISCONNECT ELECTRIC SERVICE (120/240V), AND REMOVE EXISTING LIGHTING CONTROL CABINET.
 ③ BARE GROUNDING CONDUCTOR IS INSTALLED SEPARATELY (OUTSIDE) DUCT.
 ④ CIRCUITS 3 & 4 ARE NOT TERMINATED IN POLE EB.

GENERAL NOTES:
 1. POLES FOR LIGHTING UNIT E1-E6 ARE WESTERN LIGHTING MA SERIES AND FOR LIGHTING UNIT EB IS STERNBERG 7700 SERIES.
 2. LIGHTING UNITS E1-E6 ARE CONNECTED AT 120V AND LIGHTING UNITS E7-E10 ARE CONNECTED AT 240V.

0 10' 20'

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| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | G.S. | | | | |
| Drawn | B.E.F. | | | | |
| Checked | G.S. | | | | |

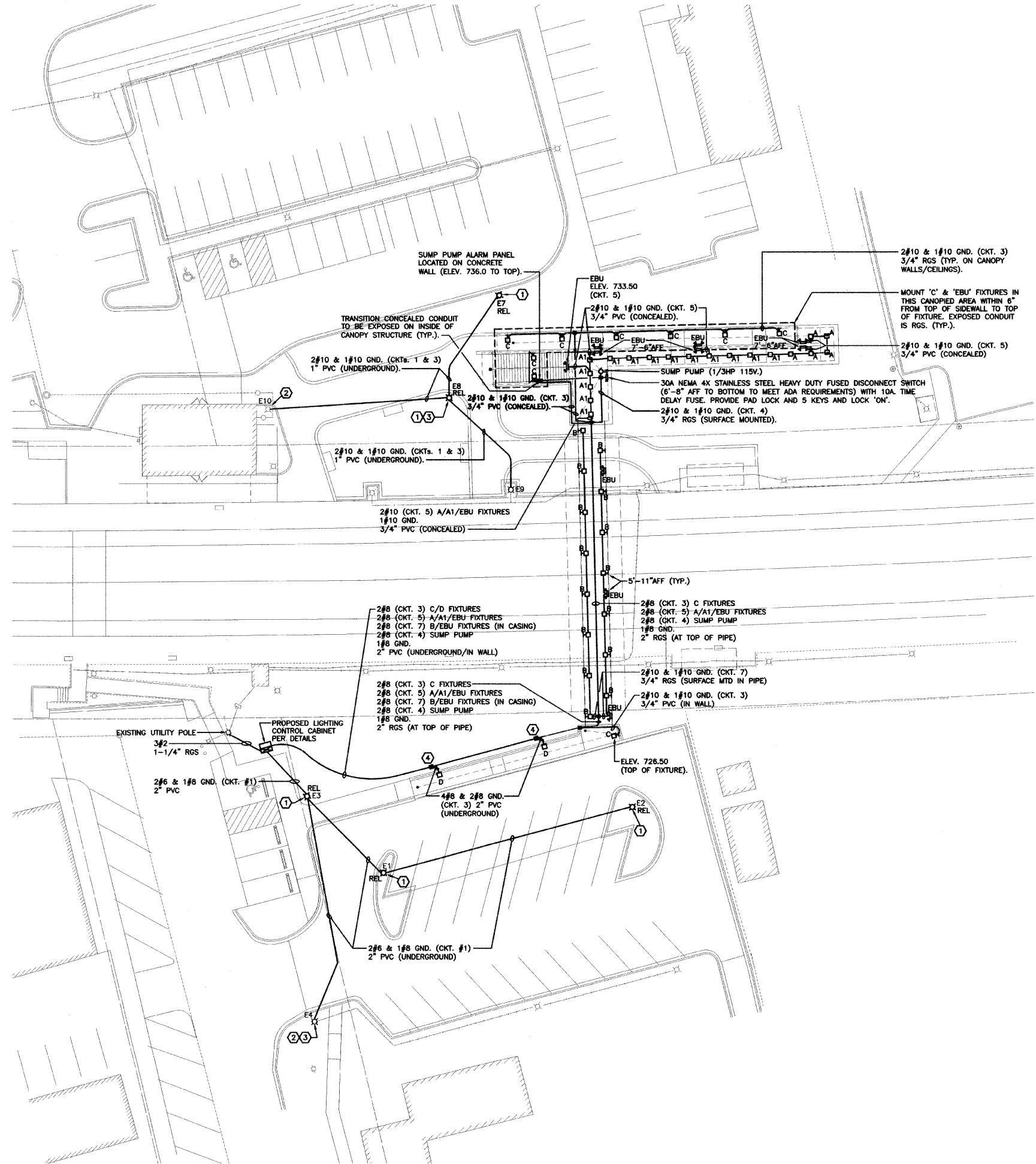
Powrtek Engineering, Inc.
 20900 SWENSON DR., SUITE 570
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PROJECT
**PEDESTRIAN UNDERPASS
 WINFIELD, ILLINOIS**

SHEET TITLE
ELECTRICAL DEMOLITION PLAN

| | | |
|----------|---------------|---------------|
| SCALE | PROJECT NO. | SHEET |
| 1" = 20' | WF-451 | No. E1 |
| | DATE | Of E5 |
| | DEC. 19, 2008 | |



- LEGEND:**
- EXISTING LIGHTING UNIT
 - REL □ RELOCATED LIGHTING UNIT
 - E — EXISTING CONDUCTORS
 - P — PROPOSED CONDUCTORS AS NOTED
 - NEMA 4X METALLIC JUNCTION BOX
 - PULL BOX
 - WALL (SURFACE OR RECESSED) LIGHT FIXTURE
 - POLE (ARM) MOUNTED LIGHT FIXTURE
 - POLE (POST TOP) MOUNTED LIGHTING FIXTURE
 - ⚡ EMERGENCY BATTERY LIGHTING UNIT
 - AFF ABOVE FINISHED FLOOR (SLAB)
 - CKT CIRCUIT
 - GND GROUND
 - PVC POLY VINYL CHLORIDE SCH. 40 CONDUIT
 - RGS RIGID GALVANIZED STEEL CONDUIT
 - TYP TYPICAL (FOR SIMILAR INSTALLATION TYPE)

- KEYED NOTES:**
- ① RELOCATED LIGHTING UNIT ON NEW CONCRETE BASE PER DETAILS.
 - ② RECONNECT EXISTING CONDUCTORS TO NEW CONDUCTORS AT EXISTING LIGHTING UNIT.
 - ③ REPLACE HANDHOLE COVER AND SCREWS. SEE DEMOLITION PLANS FOR EXISTING POLE INFORMATION.
 - ④ EXTEND CONDUCTORS FOR LIGHT POLE LOOPED THRU PULL BOX/POLE SO THERE ARE NO SPLICES IN PULL BOX.

- GENERAL NOTES:**
1. CONNECT CIRCUITS TO FIXTURE TYPES AND EQUIPMENT INDICATED.
 2. CIRCUITING (CONDUCTORS & CONDUIT) ARE INDICATED FOR LENGTH OF RUNS TILL CHANGED AS INDICATED.
 3. CONCEAL CONDUITS AND JUNCTION BOXES IN CONCRETE TO EXTENT POSSIBLE. COORDINATE CONDUIT TRANSITION FROM CONCRETE TO STEEL CASING.
 4. SEE DETAILS FOR LIGHT FIXTURES, CONCRETE BASES AND EQUIPMENT.
 5. ATTACH CONDUITS IN CASING WITH STAINLESS STEEL 2-HOLE STRAPS 5' ON-CENTER.
 6. MOUNTING HEIGHTS ARE TO CENTER OF FIXTURE, UNLESS NOTED.
 7. MAINTAIN SEPARATION OF EMERGENCY PHONE COMMUNICATION AND POWER CONDUCTORS.
 8. ALL PVC CONDUITS ARE TO BE LOCATED BELOW GRADE OR CONCEALED WITHIN CONCRETE. EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL UNLESS NOTED.
 9. COORDINATE INSTALLATION OF SUMP PUMP AND ALARM PANEL. PROVIDE ALL NECESSARY WIRING FOR PROPER OPERATION.
 10. THE CONTRACTOR SHALL DETERMINE THE EXACT JUNCTION BOX SIZE PER CODE REQUIREMENTS.

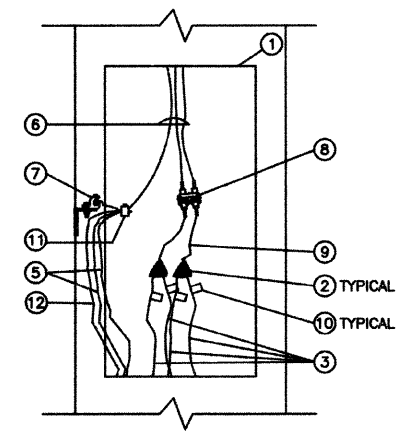
0 10' 20'

| | | | | | | | | | | | | | |
|---|---------------|-------------|-----|------|-----------|----|--|--|--|--------------------------|--------------|--------------------|---------------|
| This drawing shall not be used nor reproduced either wholly or in part except when authorized by the engineer- Rempe-Sharpe | ACTION | NAME | | | | | <p>20000 SWENSON DR., SUITE 570 WAUKESHA, WI 53085 VOICE: 262-827-9975 FAX: 262-827-9685</p> | <p>REMPE-SHARPE CONSULTING ENGINEERS IL P.D.F. LICENSE NO. 184-000895 324 WEST STATE STREET - GENEVA, ILLINOIS 60134 Telephone (630) 232-0827 - Fax (630) 232-1629</p> | PROJECT | SHEET TITLE | SCALE | PROJECT NO. | SHEET |
| | Design | G.S. | | | | | | | PEDESTRIAN UNDERPASS WINFIELD, ILLINOIS | ELECTRICAL PROPOSED PLAN | 1" = 20' | WF-451 | No. E2 |
| | Drawn | B.E.F. | | | | | | | | | | DATE | Of E5 |
| | Checked | G.S. | No. | Date | Revisions | By | | | | | | DEC. 19, 2008 | |



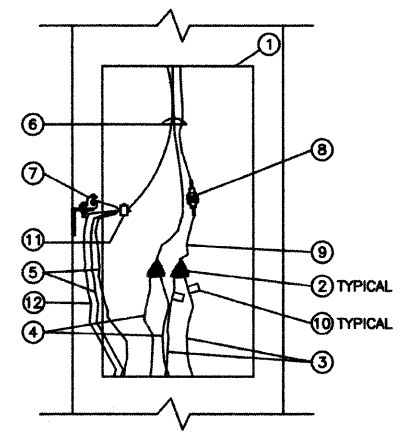
| LIGHTING FIXTURE SCHEDULE | | | | | | | | | |
|---------------------------|--|--------------|-----------------------|------------------|-----------------|--|----------|-------|---------|
| ABBREVIATIONS | | | | | | | | | |
| C - CONCRETE | F - FLUSH | P - PENDANT | U - UNIVERSAL | | | | | | |
| CB - CONCRETE BASE | G - GYP BOARD | R - RECESSED | V - VARIES | | | | | | |
| CH - CHAIN | LG - LAYIN GRID | S - SURFACE | W - WALL | | | | | | |
| ES - EXPOSED STRUCTURE | | | | | | | | | |
| DES. | DESCRIPTION | LAMP DATA | | LIGHTING FIXTURE | | SEE NOTE | | | |
| | | NO. | TYPE | VOLT | MFR. | | CAT. NO. | | |
| A | SURFACE 14.25" X 8.5" SQUARE WITH ALUM. HOUSING & TYPE 5 OPAL POLY. LENS | 1 | LU70 | 120 | DEVINE LIGHTING | GFO80-70HPS-120-DBZ-F | S | CONC. | 6 |
| A1 | PENDANT 14.25" X 8.5" SQUARE WITH ALUM. HOUSING & TYPE 5 OPAL POLY. LENS | 1 | LU70 | 120 | DEVINE LIGHTING | GFO80-70HPS-120-DBZ-PCB-F | P | CONC. | 1,6 |
| B | SURFACE 14.25" X 8.5" SQUARE WITH ALUM. HOUSING & TYPE 5 OPAL POLY. LENS | 1 | LU100 | 120 | DEVINE LIGHTING | GFO80-100HPS-120-DBZ-F | S | PIPE | 6 |
| C | WALL 10" X 10" X 7" SQUARE WITH ALUM. HOUSING & POLY LENS | 1 | LU70 | 120 | DEVINE LIGHTING | DLS1-70HPS-120-DBZ-F | S | ES | 5,6 |
| D | SHOEBOX ON 8' HIGH SQ. ALUM. POLE | 1 | LU100 | 120 | GARDCO VALMONT | EH14-1-1-100HPS-120-BRA0800-40404Y4D1313 | POLE | CONC. | 3,6 |
| EBU | NEMA 4X EMERGENCY LIGHTING UNIT | 2 | 35W/12V PAR36 (INCL.) | 120 | LITHONIA | INDX12100-H3512S-ULT | S | V | 2,4,5,6 |

- LIGHTING FIXTURE SCHEDULE NOTES:**
1. PROVIDE 1/2" RIGID GALVANIZED STEEL STEM. HEIGHT OF FIXTURE SHALL BE 9'-0" FROM BOTTOM OF FIXTURE TO FLOOR.
 2. MOUNT 7'-6" ABOVE FLOOR EXCEPT IN STEEL CASING - SEE DETAIL. AIM HEADS TO ILLUMINATE PATH EVENLY.
 3. PROVIDE CONCRETE BASE (LOCATE UNIT 18" FROM BASE CENTER TO BACK OF WALL).
 4. PROVIDE IN-LINE FUSEHOLDER (5A KTK FUSE) IN ASSOCIATED JUNCTION BOX.
 5. MOUNT TOP OF FIXTURE 6" FROM TOP OF SIDEWALL ON VERTICAL MEMBER, WHERE INSTALLED IN CANOPY STRUCTURE.
 6. COLOR TO BE VERIFIED PRIOR TO ORDERING.



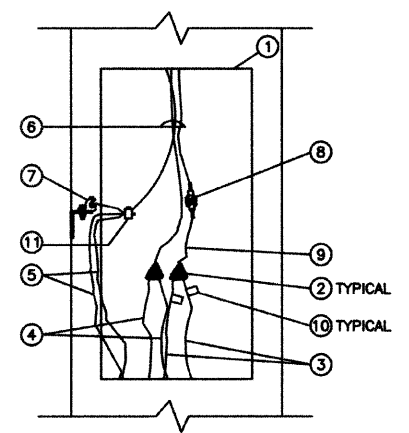
- ① HANDHOLE AND COVER
- ② INSULATED SPLICE
- ③ UNGROUNDED CONDUCTORS
- ④ GROUNDED (NEUTRAL) CONDUCTORS
- ⑤ EQUIPMENT OR SYSTEM GROUNDING CONDUCTORS
- ⑥ 2#12 & 1#12 GND TO LUMINAIRE
- ⑦ HANDHOLE GROUNDING LUG
- ⑧ 2-POLE INLINE FUSE ASSEMBLY W/5A KTK FUSE AND WEATHERPROOF BOOTS
- ⑨ 12" PIGTAIL BETWEEN SPLICE AND FUSE ASSEMBLY
- ⑩ CIRCUIT TAG
- ⑪ REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTION (NOT INSULATED)
- ⑫ CONDUCTOR TO GROUND ROD

1 LIGHTING UNIT E8 POLE WIRING DETAIL
E3 NOT TO SCALE



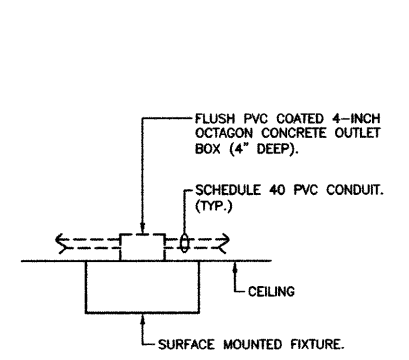
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- ⑩ CIRCUIT TAG
- ⑪ REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTION (NOT INSULATED)
- ⑫ CONDUCTOR TO GROUND ROD

2 LIGHTING UNITS E1-E4 POLE WIRING DETAIL
E3 NOT TO SCALE

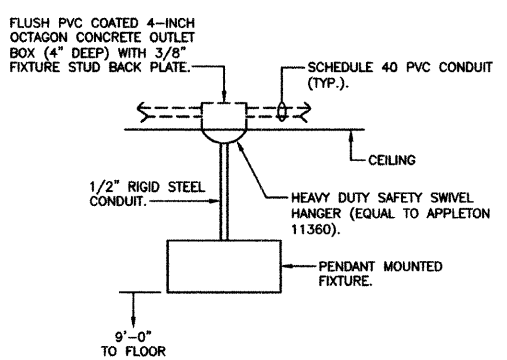


- ① HANDHOLE AND COVER
- ② INSULATED SPLICE
- ③ UNGROUNDED CONDUCTORS
- ④ GROUNDED (NEUTRAL) CONDUCTORS
- ⑤ EQUIPMENT OR SYSTEM GROUNDING CONDUCTORS
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- ⑩ CIRCUIT TAG
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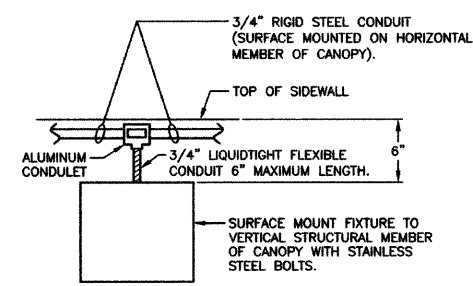
3 LIGHT FIXTURE TYPE D POLE WIRING DETAIL
E3 NOT TO SCALE



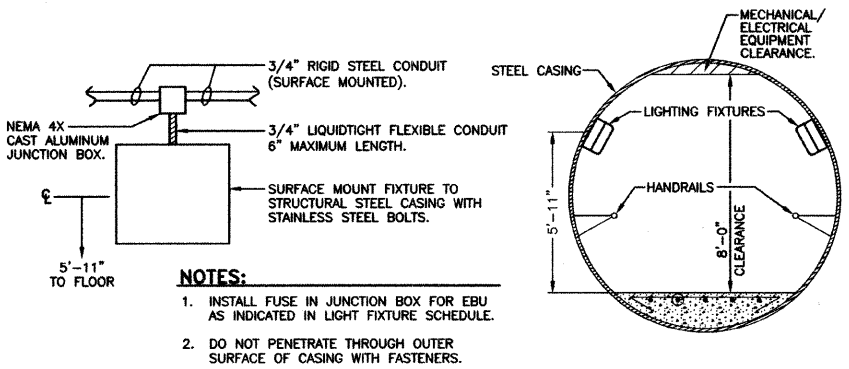
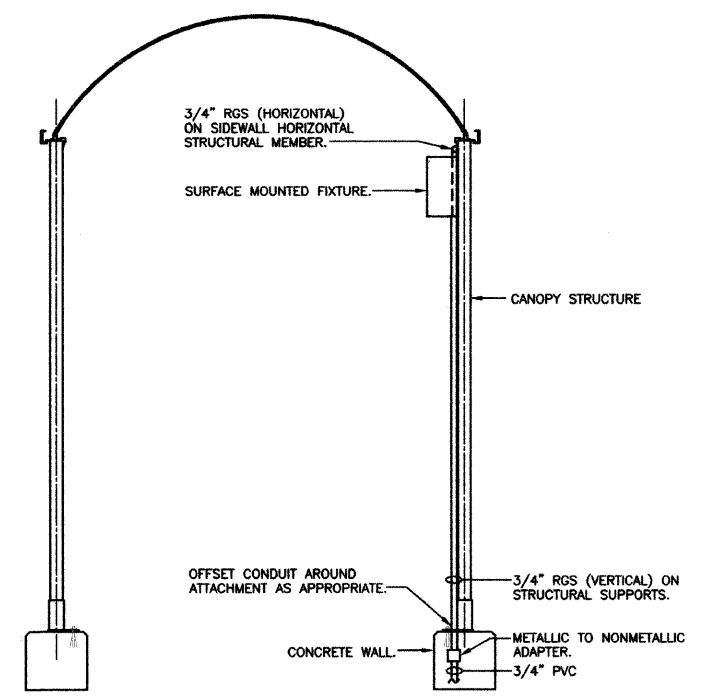
1 FIXTURE TYPE A MOUNTING DETAIL
E4 NOT TO SCALE



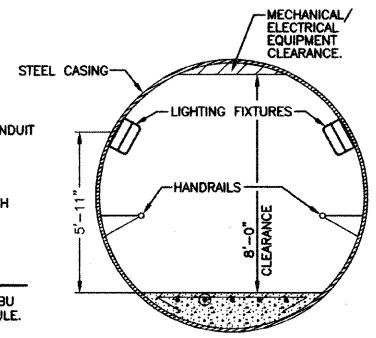
2 FIXTURE TYPE A1 MOUNTING DETAIL
E4 NOT TO SCALE



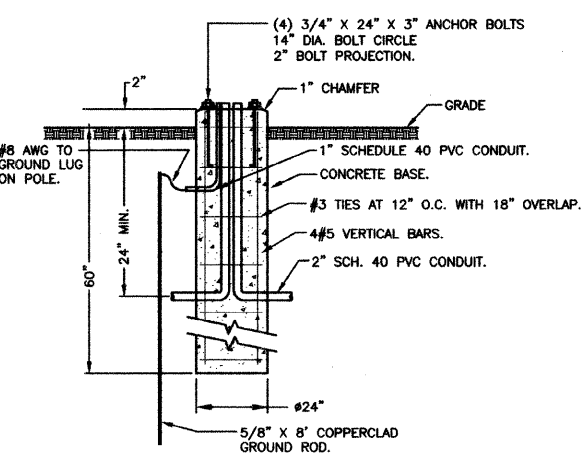
3 FIXTURE TYPE C AND EBU (IN CANOPY AREAS) MOUNTING DETAIL
E4 NOT TO SCALE



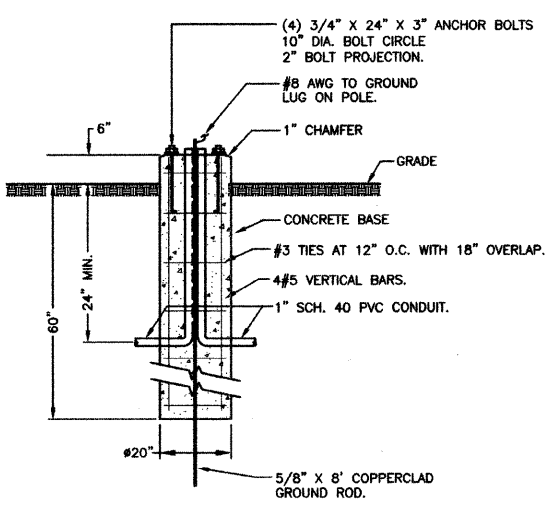
5 PULL BOX DETAIL
E4 NOT TO SCALE



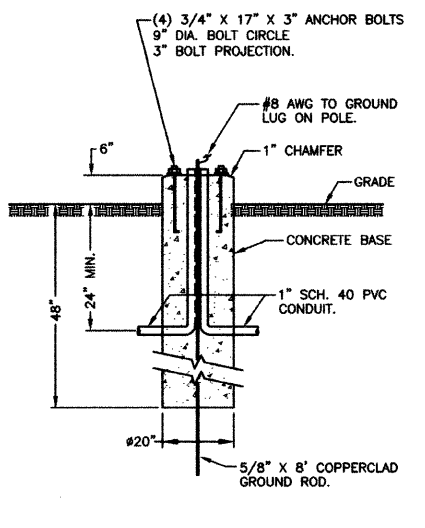
6 TRENCH DETAIL
E4 NOT TO SCALE



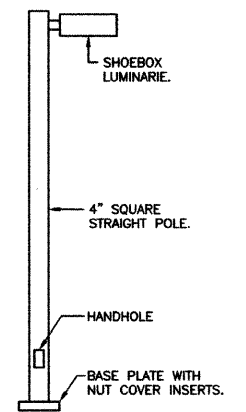
7 LIGHTING UNITS E1-E4 CONCRETE BASE DETAIL
E4 NOT TO SCALE



8 LIGHTING UNIT E8 CONCRETE BASE DETAIL
E4 NOT TO SCALE



9 LIGHTING UNIT D CONCRETE BASE DETAIL
E4 NOT TO SCALE



10 TYPE D LIGHTING UNIT DETAIL
E4 NOT TO SCALE

CONCRETE BASE NOTES:

- REMOVE ALL CONCRETE FORMS FROM POLE BASES.
- ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A449 OR A687 (GRADE 105) ANCHOR BOLTS SHALL HAVE A MINIMUM YIELD STRENGTH OF 92,000 PSI AND A MINIMUM ELONGATION OF 14% IN 4". HOT DIP ENTIRE ANCHOR LENGTH OF ANCHOR BOLTS, AND NUTS AND WASHERS CONFORMING TO AASHTO M232.
- REBAR SHALL CONFORM WITH AASHTO M31, GRADE 60 AND BE EPOXY COATED.

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| ACTION | NAME | No. | Date | Revisions | By |
|---------|--------|-----|------|-----------|----|
| Design | G.S. | | | | |
| Drawn | B.E.F. | | | | |
| Checked | G.S. | | | | |

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324 WEST STATE STREET - GENEVA, ILLINOIS 60134
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PROJECT
PEDESTRIAN UNDERPASS WINFIELD, ILLINOIS

SHEET TITLE
ELECTRICAL DETAILS

| | | |
|-------|---------------|---------------|
| SCALE | PROJECT NO. | SHEET |
| NONE | WF-451 | No. E4 |
| | DATE | Of E5 |
| | DEC. 19, 2008 | |

