GENERAL HOTES I) FIELD TOLERANCE IS IN ACCORDINACE WITH "THE ERECTOR'S WANLING. STANDARDS & GUIDELINES FOR THE ERECTION OF PRECISE CONCRETE PRODUCTS" PER SECTION 8.2 OF THE PCI MARIAL (CURRENT EDITION). 2) ERECTION TOLERANCES IN ACCORDANCE WITH "PCI RECONMENDED PRACTICE FOR EXECTION OF PRECAST CONCRETE" & SECTION 8.3 OF THE PCI MANUAL (CURRENT EDIDON). 3) ITEMS PROVIDED BY THE INSTALLATION CONTRACTOR GROUT STRUCTURAL CALLE AND BACKER ROOS NON-STRUTCURAL CALLY ANCHOR BOLIS AHCHOR BOLT MUTS ANCHOR ROLL MACHES () ITEMS PROMOED BY PRECASE SUPPLIER STEEL POSTS PRECAST PANELS 5) STAIN SHALL BE A HON FILM FORMING, PENETRATING CONCRETE STAIN (OR COMPARABLE) APPLIED IN SHOP PER MANUFACTURER'S RECOMMENDATIONS BY SUPPLIER AND PROJECT SPECIFICATIONS, COLOR: FEDERAL STANDARD 595-8. TOUCH UP IN FIELD WITH SAME MATERIAL AS S) TEST CYLINDERS SHALL BE PREPARED FOR PANELS FORMED PER IDOT SPECIFICATIONS.) REPAIR OF PANELS IS PER MANUFACTURER'S SPECIFICATIONS. 8) PANEL CAP SHALL BE SMOOTH FINISH. PANEL WILL BE ASHLAR STONE FORM LINER FINISH ON SIDE FACING IL RITE 394 AND A PRESSED—IN VERTICAL PLANK FORM LINER PATTERN ON SIDE FACING RESIDENTIAL PER THE SPECIFICATIONS. (SEE PANEL DETAILS) 9) THE MINIMUM REINFORCEMENT BAR COMER SHALL BE 38 $(1^{1}/_{2})$. 10) ALL REINFORCEMENT SHALL BE EPOXY CONTED. 11) PANEL DIMENSIONS SHALL BE WITHIN 6 (1/4). 12) ANGULAR DISTORTION WITH REGARD TO PANEL SQUAREDIESS, DEFINED AS THE DIFFERENCE BETWEEN THE TWO DIAGONALS, SHALL NOT EXCEED 13 3) SURFACE DEFECTS ON FORMED SURFACES MEASURED ON A LENGTH OF $1.52 m~ \left(5^{\prime\prime}-0^{\prime\prime}\right)$ shall not be more than 3 (0.10) prior to loading panels on truck for delivery. 14) Posts shall be installed plane to within 13 $(\frac{1}{2})$ of vertical FOR EVERY 4.57m (15'-0") OF HEIGHT AND TO WITHIN 13 $(\frac{1}{2})$ OF THE STATION AND OFFSET HOICATED. 5) DRILLED SHAFT FOUNDATIONS SHALL BE PLACED WITHIN 51 (2) OF THE STATION AND DEPSET MONCATED 16) ALL LIFTING INSERTS CAST INTO THE PANELS SHALL BE NOT DIPPED CALVANIZED & SHALL BE INSTALLED INTO THE TOP EDGE OF EACH PAREL. AT QUARTER POINTS AS SHOWN IN STEP (3) OF DETAIL 1/52.00. MATERIAL SPECIFICATIONS (PER IDOT SPECIFICATIONS) 1) PRECAST CONCRETE (NOISE ABATEMENT WALL, GROUND MOUNTED) CLASS fc = 41.4 MPa (6,000 PSI) @ 28 DAYS DENSITY = 2403 kg/m⁻³ (150 POF) 2) GROUT (BY OTHERS) GROUT STRENGTH 41,369 kPa @ 28 DAYS 27,580 kPa 0 3 DAYS (DO NOT ALLOW GROUT TO FREEZE PISOR TO REACHING 34,474 MPa) CONCRETE AND STEEL COLORS FER FEDERAL STANDARD 595-8 COLOR COLOR OF HORSE ABATEMENT WALL SYSTEM = COLOR #340340 CHISSON CONCRETE: CLASS DS, fc = 27.5 MPa @ 14 DAYS WELDED WARE FABRIC: ASIM A497 (AASHTO M55), Fy = 483 MPG MBH, EPOXY COATED*) STEEL POSTS: ASHTO 12270 GRADE 345 (GRADE 50), Fy = 345 MPo^{44} 7) LIFTING INSERTS: UNMERSAL BUILDING PRODUCTS DEFASS712G $57x7\frac{1}{8}^{\circ}$ DROP FORGED FOOT ANCHOR (NING LIFT SYSTEM) OR EQUAL.) STRUCTURAL CAULK: SKAOUR 51 NS FLEXIBLE EPOXY CONTROL-JOINT SEALER/ADHESINE OR FOUND

8) shims: versa-a-shim high impact plastic shims per astim 0792 &

0) BACKER ROD: WILE HIGH FOAM PRODUCT SIZED PER BACKER ROD MANUFACTURING, INC. OR EQUAL 1) HON-STRUCTURAL CALLK SEALANT: AC-20 FTR PER PRODUKA

CORPORATION SPECIFICATIONS AND MANUFACTURING STANDARDS OR EQUAL. 2) REBAR (CONCRETE REINFORCEMENT): ASTN A706N, GRADE 420

HF USED IN PLACE OF \$10 TEMP/SHRBBAAGE EPOXY CONTED REINFORCEMENT **BASE PLATES AND STEEL POSTS SHALL BE CALVANEZED ACCORDING TO ASTN A385 AND AASHTO MILLI

DRILLED CARSSON SHAFT INSTALLATION

INSTALLATION

1) AUCER HOLE TO REQUIRED DEPTHS. SEE PRECAST SHOP DRAWINGS FOR PIER LOCATIONS. DEWATER AS NECESSAR

2) PLACE REBAR PER DRILLED PIER/CAISSON DETAILS.

3) PLACE $f'_{c} = 27.580$ MPs concrete in augured hole to the depth and elevations specified on plan and elevation sheets and footing SCHEDULE OF THESE PRECAST SHOP DRAWINGS.

3) DRELED CASSON FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ARTICLE 516.02 OF THE 100T STANDARD SPECIFICATIONS FOR ROAD NO BEROGE CONSTRUCTION.

4) IF SOIL IS UNSURFAILE, A CORRUGATED LINER OR SONOTUBE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE.

PANEL INSTALLATION (NOISE ABATEMENT WALL, GROUND MOUNTED)

1) PRESET SIREL POSTS TO THE NECESSARY ELEVATION TO OBTAIN TOP OF ELEVADONS SPECIFIED ON THE PLAN AND ELEVADION DRAWINGS. SEE 3&4/S2.00 FOR SHIM DETAILS.

2) ERECT PRECAST PAREL ON THE SHIMS AND INTO SLOT PROMDED IN STEEL POST BETWEEN PANELS AND CLIP ANGLES. SEE COLUMN DETAILS ON SHEET \$4.00

WIDTH SO THAT JOINT FILLER IS NOT VISIBLE TO HINDER THE AESTHETIC APPEARANCE OF THE WALL. CLEAN OFF ARY JOINT FILLER THAT PROTEUDES REYOND STRUCTURAL WORTH OF PANEL 4) RELEASE PANEL FROM THE CRAME

DRILLED CASSONS

1. THIS ITEM SHALL CONSIST OF CONSTRUCTING CONCRETE SHAFT FOUNDATIONS CAST IN DRILLED HOLES IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, DETAILS SHOWN ON THE PLANS AND FURTHER DESCRIBED

2. CASSON DESIGN IS BASED UPON SOIL TYPES AND PROPERTIES PROVIDED ON SHEETS 4 THRU 10 OF THE MOISE ABATEMENT WALL PLANS (136 THRU 145 OF THE COMPLETE DESIGN DRAWINGS). IF SOIL CONDITIONS IN FIELD DEWATE FROM THOSE INDICATED IN THE DESIGN DRAWINGS, THE RESIDENT ENGINEER SHALL CONTACT LARSON ENGINEERING, INC. PRIOR TO

3. THE ORDITING OF THE HOLES SHALL BE ACCOMPLISHED BY MEANS OF ETHER TRUCK MOUNTED OR CRAME MOUNTED EARTH AUGERS. THE DRILL UNIT USED SHALL BE SUCH THAT THE SHAFTS CAN BE EXCAMPED TO THE DWILETERS AND ALIGNMENT REQUIRED BY THE PLANS. THE DRILL UNIT SHALL HAVE ADEQUATE CAPACITY TO CREATE A SHAFT EXCAVATION TO A DEPTH OF 20 PERCENT BEYOND THE DEPTHS INDICATED ON THE PLANS.

4. IF BOULDERS OR MASONRY FOUNDATIONS SHOULD BE ENCOUNTERED. BELOW THE NATURAL GROUND DURBING DRILLING, THE HOLES SHOULD CONTINUE THROUGH THESE DESTRUCTIONS. ALL LOOSE MATERIAL EXISTING AT THE BOTTOM OF THE HOLE AFTER DRILLING OPERATIONS AND EXCAVATION SHALL BE REMOVED BEFORE PLACING CONCRETE IN THE

5. ALL EXCAPATIONS SHALL BE INSPECTED PRIOR TO CONCRETE PLACEMENT BY AN OWNER'S REPRESENTATIVE TO VEREY SUITABLE BEARING MATERIAL OF CAPACITY AS SPECIFIED IN THE DESIGN DRAWINGS. THE CONTRACTOR SHALL HAVE AVAILABLE A SUBABLE LIGHT FOR THE DISPECTION OF THE ORLILED HOLES FOR ITS ENTIRE DEPTH. ALL HOLES SHALL BE EXAMINED FOR STRACHINESS. THE ALICHMENT OF THE SHAFT SHALL NOT WARY FROM VENTICAL BY MORE THAN 1.5%.

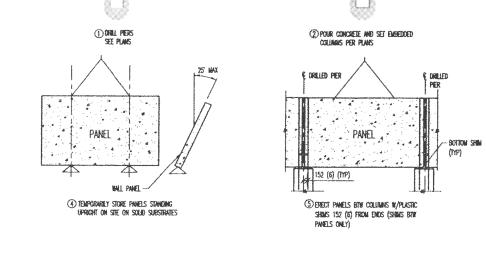
5. NOTITY THE OWNER'S REPRESENTATIVE AND LARSON ENGINEERING, INC WHEN ADDITIONAL EXCAVATION IS REQUIRED TO MEET SUITABLE BEARING

. SURFACE WATER SHALL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILITEATED INTO THE HOLE SHALL BE REMOVED PRIOR TO PLACING CONCRETE THEREIN. A DEMATERING SYSTEM OF SUFFICIENT CAPACITY SHALL BE INSTALLED AND OPERATED TO MAINTAIN THE CONSTRUCTION AREA FREE OF WATER AT ALL TIMES. IF DEMATERING OF THE HOLE CAMBOT BE READLY ACCOMPLISHED WITHOUT LOSS OF GROUND OR CREATING QUICK CONDITIONS, THEN THE HOLE SHALL BE EINED AND TREMMED CONCRETE SHALL BE USED.

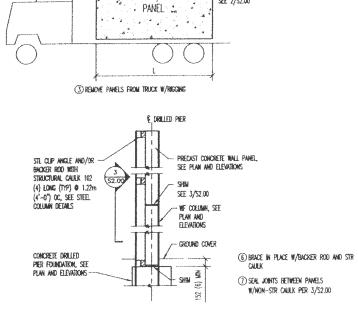
IF UNSUITABLE SOILS ARE FOUND, IN ORDER TO PREVENT CAYING OF THE HOLE BEFORE CONCRETE IS PLACED THEREIN, DRILLED CASSON SHAFTS SHALL BE SLEEVED TO A DEPTH OF AT LEAST 10' BELOW TOP OF FINISHED GRADE TO PREVENT CAVE IN

9. THE WETHOO OF PLACING CONCRETE IN THE SHAFTS SHALL BE PRE APPROVED BY THE RESIDENT ENGINEER. THE METHOD USED SHALL RE ONE THAT WILL PROVIDE A CONTINUOUS FLOW WITH NO SEGREGATION O THE CONCRETE MATERIALS.

1) WHEN WORKING IN THE WOINTY OF COMED'S ELECTRIC TRANSMISSION LINES DURING THE INSTALLATION, OSHA REQUIRES THAT A MIN. 6.10m (20'-0") WORKING CLEARANCE DISTANCE MENT HE MAINTAINED HETHERE THE BOOMS, ARMS OR OTHER PARTS THAT CAN BE RAISED ON THE EQUEPLENT FOR THE PETITIONER'S CONTRACTOR AND COMED'S EXISTING SOUTHERLY 345,000 WOLT ELECTRIC TRANSMISSION CONDUCTORS. 05HA REQUIRES A MINIMUM OF 4.27m (14"-0") WORKING CLEARANCE DISTANCE MIST BE MAINTAINED BETWEEN THE BOOMS, ARMS OR OTHER PARTS THAT CAN BE RAISED ON THE EQUIPMENT FOR THE PETITIONER'S CONTRACTOR AND COMED'S EXISTING MORTHERLY 138,000 VOLT ELECTRIC TRANSMISSIONS CONDUCTORS. UNDER NO CIRCUNSTANCES, SHOULD TRUCK BEDS BE RAISED UNDERNEATH COMED TRANSMISSION LINES.



ANTONOMIA (CONTRACTOR)

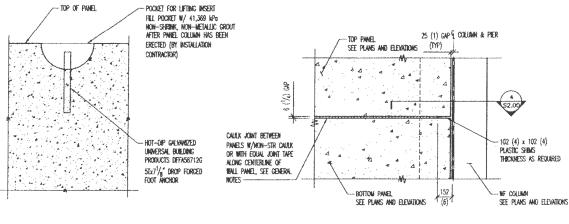


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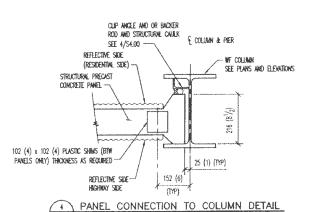
- HETING INSERT

SEE 2/S2.00

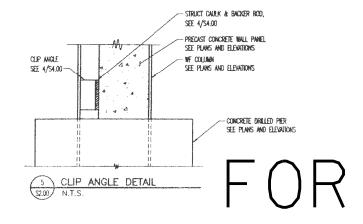
TYPICAL NOISE ABATEMENT WALL INSTALLATION SEQUENCE & PROCEDURES N.T.S.



2 TYPICAL LIFTING INSERT DETAIL HORIZONTAL JOINT DETAIL



NOTE: CLIP ANGLES SHALL BE WELDED TO STEEL POSTS IN SHOP PRIOR TO GALVANIZING. CLIP ANGLES AND STEEL POSTS SHALL THAN BE CALVANIZED TOGETHER IN SHOP AND INSPECTED PRIOR TO SHIPPING. SEE 4/S4.00 FOR SPECIFIC PANEL CONNECTION



\$2.00 N.T.S.

1) THESE DRAWNGS HAVE BEEN PREPARED FOR THE FABRICATION OF THE PRECAST NOISE AGAINMENT WALLS AND PROVIDE GENERAL INSTALLATION SEQUENCE AND PROCEDURES FOR THE CONTRACTOR. THE CONTRACTOR THALL RETAIN SOLE RESPONSEDLITY FOR THE MEANS, METHODS, AND TECHNIQUES OF CONSTRUCTION OF THE NOISE ABATEMENT WALLS FOR COMPLIANCE WITH LAWS, REGULATIONS, AND CODES, AND FOR THE SAFETY OF CONSTRUCTION APPLICABLE TO THIS WORK.

SCALE:

ORMATION

\$2.00 N.T.S.

DESIGNED REVISED FILE NAME USER NAME = midyja ::\pw_work\pwidot\midyja\d0348982\D13901 3-sht-plan.don DRAWN REVISED CHECKED REVISED PLOT DATE = 7/12/2013 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY TYPICAL CONCRETE NOISE ABATEMENT WALL REPAIR VAR. 2013-0411 VARIOUS 44 14 **DETAILS AND NOTES (IL 394)** CONTRACT NO. 60W86 SHEET 3 OF 3 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT