SUBMITTAL TO THE BOARD OF SUPERVISORS **COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**



FROM: TLMA - Transportation Department

SUBMITTAL DATE: April 18, 2013

SUBJECT: Authorization for Payment to the Imperial Irrigation District (IID) for the

undergrounding of existing aerial primary electric facilities, Fred Waring Drive,

Port Maria Rd. to approximately 700 ft. westerly

RECOMMENDED MOTION: That the Board of Supervisors authorize the payment of \$156,389 to the Imperial Irrigation District as payment for IID costs for the undergrounding of existing aerial primary electric facilities.

BACKGROUND:

The Transportation Improvement Program provides for the widening of Fred Waring Drive, from Adams Street to Port Maria Road, in the La Quinta area. The southerly half of the road is

Juan C. Perez

Director of Transportation and Land Management

JP:sd

(Continued On Attached Page)

Current F.Y. Total Cost: In Current Year Budget: \$ 156,389 Yes **FINANCIAL Current F.Y. Net County Cost: Budget Adjustment:** No \$0 DATA **Annual Net County Cost:** For Fiscal Year: 2012/2013 \$0

SOURCE OF FUNDS: Palm Desert Financing Authority (100%)

Positions To Be Deleted Per A-30

There are no General Funds used for this project.

Requires 4/5 Vote

C.E.O. RECOMMENDATION:

APPROVE

Tina Grande

County Executive Office Signature

Policy Policy \boxtimes M

Consent

Dep't Recomm.: Exec. Ofc. Per

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Ashley, seconded by Supervisor Benoit and duly carried, IT WAS ORDERED that the above matter is approved as recommended.

Ayes:

Jeffries, Tavaglione, Benoit and Ashley

Navs:

None

Absent:

Stone

Date:

Transp.

2010 MAY -7 PM 2:51 May 14, 2013

Prev. Agn. Ref.

XC:

District: Agenda Number: Kecia Harper-Ihem

The Honorable Board of Supervisors

RE: Authorization for Payment to the Imperial Irrigation District (IID) for the undergrounding of existing aerial primary electric facilities, Fred Waring Drive, Port Maria Rd. to approximately 700 ft. westerly

April 18, 2013

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within the City of La Quinta, and the work is being coordinated with the City. The project requires the relocation of 7 power poles that are owned by the Imperial Irrigation District, and which provide electricity to adjacent homes.

The undergrounding of the conductors, and removal of the poles, is a practical alternative to the relocation of the power poles for this project. This benefit is primarily due to the limited right-of-way available for the project. The undergrounding conversion will avoid the need to obtain right-of-way from each of the property owners. Additionally, relocation of the poles would place power poles closer to each of the homes, which would likely result in protests from the homeowners. The undergrounding conversion will result in aesthetic enhancement that will compliment the project and the neighborhood.

The project is specifically designed to avoid right-of-way acquisitions, especially the full acquisition of the homes and property on the north side of Fred Waring Drive, which is a project savings of \$10 to \$12 Million. Because the time-frame and the nature of the project only allow for very limited easement acquisitions, the undergrounding of the aerial electrical system is appropriate for this project.

The full cost of the undergrounding of the IID power system is the responsibility of the project. The submitted invoice provides for the work that will be performed by IID. Conduit installation and minor structures will be installed by the County's contractor during construction.

Project no. B5-0689



CUSTOMER OPERATIONS 81-600 AVENUE 58 LA QUINTA, CA 92253

Customer Acct. #3346720

COUNTY OF RIVERSIDE TRANSP DEPT 2950 WASHINGTON ST RIVERSIDE CA 92504 Date: April 05, 2013.

CSP # 4014837

FRED WARING DR BERMUDA DUNES CA 92203

Subject: OH TO UG EXISITING FACILITIES

IID Energy thanks you for giving us the opportunity to serve your electrical needs. To ensure your project is successfully processed, payment in full is required for the balance due. Please send payment to 81-600 AVENUE 58 - LA QUINTA, CA 92253.

Regulation Charges	Amo	ount Quoted	E	Balance Due
Engineering Fee	\$	5,000.00		Market State Commission (Commission Commission Commissi
TOPS N' Barricades	\$	5,000.00	\$	5,000.00
Comm UG Actual (\$156389.05-\$1000Eng Fee	:)\$	151,389.05	\$ \$	151,389.05
Total Charges	S	161,389.05	\$	156,389.05

Our Goal is to provide excellent customer service from design to construction. Please ensure requirements 1 & 2 are accomplished or contact Project Manager at 760-398-5841 if you have questions about your project.

Requirements

1. Project is paid in full

2. IID inspections are passed

Call your Project Manager once requirements 1 & 2 are accomplished. This allows us to efficiently plan and commit necessary resources to complete your project.

Important

1. Failure to acknowledge this quote by 10/02/2013 results in cancellation.

- 2. After Payment is made in full, actual construction date is subject to material availability (10-16 weeks).
- 3. Design changes caused by the customer may increase regulation charges.
- 4. Failure to fulfill payments and IID inspections will result in project delays.
- 5. Guarantee deposit is also required for new commercial accounts.

Sincerely.

Mr. Carlos Puente Project Manager

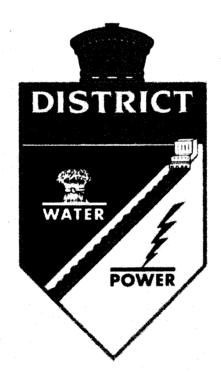
Imperial Irrigation District Coachella Valley Power Division

COUNTY OF RIVERSIDE TRANSP. DEPT FRED WARING/EAST OF ADAMS BERMUDA DUNES, 92203

Service Notification: 4014837

Service Order: 60077999

Contact Name: STAN DEVY Phone Number: (951)315-5502



Project Estimator: Mr. Jason Hernandez Project Manager: Mr. Carlos Puente

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OVERVIEW

As a Developer or Contractor (collectively Developer") involved in today's new residential and/or commercial developments, you are well aware of how timing can make the difference between the success or failure of any project. The importance of establishing and adhering to realistic construction schedules is equally as important to the success of a project as project funding.

With current and projected demands increasing for residential and commercial units within the District's service area, it is important for Developers to establish a comprehensive development plan for the successful marketing of their projects. The District likewise must also set schedules to keep pace with the demands for electrical service. In that regard, the following information is provided as a guide to assist the Developer in the planning and scheduling of projects.

Upon receipt of the criteria in sections I – XI below, the District will provide a proposed construction schedule. The District's commitments and quoted costs are valid for six months.

REQUIREMENTS FOR ELECTRIC SERVICE

- Complete and sign all applicable forms in the Customer Information Packet located in the back of this document. Please contact you. Customer Service Project manager with questions or assistance in completing the forms.
- 2 A nonrefundable advance design fee payment (applied as a credit toward the construction costs)
- 3. Collection of construction costs according to IID Regulation No. 16.
- An AutoCAD electronic file along with the requirements listed in Section XI will expedite your proposed project.

II. ADVANCE DESIGN FEES

An advance design fee must be paid to IID before a commitment will be granted. The advance fee will be determined as follows:

- Design fees will be determined by the Customer Service Project Manager in accordance with I. Requirements for Electric Service, number 3 of section 1 above.
- Switch and/or feeder work design.
- 3. The Advanced Design Fee will be paid to begin engineering a project and will be applied as a credit toward the IID cost of the project if it goes to completion. If the project is cancelled, the Advanced Design Fee is non-refundable. Any design changes that result in the redesign of project and therefore alters prior scheduled IID commitments will require an additional non-refundable. Advanced Design Fee Please contact a Customer Service Project Manager for appropriate design fee costs. District office locations and contact numbers are listed on page 3.

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III ELIGIBILLY FOR ENGINEERING DESIGN

The District's Distribution Engineering Section prioritizes the preparation of the job package preparation based on receipt of all required customer information and the expected start of developer construction.

Job preparation will not begin until job is placed on the engineering schedule. To be placed on the engineering schedule, the developer must complete and submit the following

- 1. Completion of all related IID forms found in the Oustomer Information Packet located at the end of this document.
- 2. Payment of advance design fee
- 3. Plans, drawings and load data

IV JOB PACKAGE PREPARATION

The time required to prepare a job package for construction will vary depending upon the size of job, complexity of work, and right-of-way access, environmental or permit requirements.

The District will provide and mail a billing letter to the responsible party as shown in Customer Information Packet located at the end of this document

√ JOB PACKAGE RELEASE

The job will be released for construction scheduling when the conditions contained within the Customer Information Packet have been met and the District's job package has been approved

VI. CONSTRUCTION SCHEDULE

Based upon the estimated request date for electricity, the job package is released and placed on the District's construction schedule. Schedule may be obtained from Customer Service Project Manager.

The District's goal is to provide timely and economical electric service. In order to achieve this goal the developer should promptly provide the information requested and keep the Customer Service Project Manager informed of project status.

VII. UNDERGROUND FACILITIES

When underground facilities are to be included, the District will provide a complete set of underground duct, vault, transformer pad and riser pole system installation drawings and associated specifications for each project or phase. It is the responsibility of the developer to provide and install, at developer's expense, the complete underground conduit and vault system including any street lighting systems required by the city, county or other governing agency having jurisdiction. Lighting systems must be approved in advance of installation by the governing agency having jurisdiction. The District will provide point of service

The District will provide an underground power inspection during the installation of conduit and vault systems with the exception of street light systems. Any request for inspections on a project must be scheduled with the District a minimum of 48 business hours in advance. Failure to schedule and/or obtain an inspection and approval for any portion of the lighting or underground power system may result in the total rejection of the system. Attachment A contains the Underground Distribution Standard Specifications, which include details and District products used.

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WIII. LIABILITY

To eliminate any misunderstandings concerning the Districts assumption of liability for personal injury or property damage prior to or following the completion of the underground duct and vault system by the Developer, the Developer will be required to acknowledge in writing that the District assumes no responsibility for safety, maintenance, repair or corrections for any on-site or off-site electrical distribution system equipment or facilities until the system and facilities are occupied by the District. This acknowledgement will be done through the completion of the Indemnification Agreement (Form IID-700C 6-07) which is required prior to obtaining electrical power service for the development project. Those persons executing the statement must be legally authorized by the developer to execute the statement, which shall be binding on all parties having ownership of, or contractual interest in, the land and/or development project. This will allow the application to be placed on the engineering schedule.

IX. OCCUPATION OF FACILITIES

It is the responsibility of the developer to supply and maintain all necessary safeguards and to ensure a safe working environment during and after the construction and/or installation of the underground power system. It is the District's policy to occupy only those portions of the system for which a service request has been made and all line extension charges and connect fees have been paid.

Only those portions of the system which are actually occupied by the District will be released from the Developer's responsibility. The Developer shall continue to be responsible for the maintenance repairs, safety corrections and the liability for the balance of the unoccupied and deenergized portions of the power system, until such time that the District takes possession.

Any portion of an existing underground system installed in advance of service needs of the Developer that is not occupied by the District shall require a full and complete re-inspection. The District will not establish construction and/or cable installation schedules in advance of the requirement.

Upon completion of the duct and vault system and acceptance of the installation as meeting the District's standards for <u>installation conformance only</u>, the District will assume ownership of all such facilities, <u>except</u> conduits, vaults and enclosures that are on, within or a part of a building or structure or that are not occupied by the District.

A SPECIAL SERVICE CONDITIONS

During the initial review of any project, the District may determine that special service conditions exist due to one or more of the following conditions:

- 1. Existing distribution and/or transmission facilities do not have the capacity to serve the project.
- Special or additional rights-of-way or easements may be required to serve the project.
- Special voltage and/or load demands could be imposed on existing facilities by the project
- 4. All rights-of-way determined necessary to extend electrical service to any project shall be the sole responsibility of the customer to acquire. (Contact Real-Estate Section: Imperial Valley (760) 339-9239 or Coachella Valley (760) 391-5950.

Under these conditions the Developer will be required to:

- Provide a two-acre substation site at a location determined by the District.
- 2 Provide any additional rights-of-way or easements that the District determines necessary to provide electrical service to said project.

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XL PLANS, DRAWINGS AND LOAD DATA

The District requires the developer to provide the following to the District's Gustories Service Operations

Approved street lighting plan.

Note In the District's Riverside County service area, the Developer shall submit lighting proposals first to the county of Riverside and their to the District's Customer Service Operations for service points

- 2. Water, sewer and drainage plans.
- 3. Street improvement plans.
- 4. Precise grading and landscaping plans
- 5. Plot plans with building shown
- 6. Parcel and overall project map with phasma
- 7. Graphic scales on all AutoCAD drawings
- 8. All parcel map property corners or tract map boundary corners shall be tied to section or ¼ section corners.
- One hard copy of total connected electrical loads for each building style or floor plan.
- 10 Items to be included into their own separate layers are as follows
 - · Land Parcel Layer
 - · Right of Way Laver
 - · Centerline layer including Street Centerline Annotation
 - Public Utility Easement Layer (P U E.)

Items 1 through it (above) shall be provided for proposed residential subdivisions, commercial projects and apartment projects. All land base or base map data must first be acquired from either the county of Imperial or the county of Riverside (as appropriate). The land base information will include NAD-83, zone 6 state plane coordinates, the appropriate existing parcel map, street, road and any other known right-of-way boundaries. Known surveyed benchmark locations and/or GPS data points should also be included, wherein they are available. Basically the proposed project should be designed inside the county area of the submittal and only in AutoCAD digital form. Acceptable media is an electronic file.

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CONTRACTORS NOTES

CONTRACTOR RESPONSIBILITY

These specifications cover the requirements for turnishing and installing certain portions of electrical underground distribution facilities not detailed in the attached Contractors Drawings

Whenever a manufacturer's material or equipment is referred to by name, type, or catalog number, this material or equipment is satisfactory and for approved equal requires that other manufacturer's material or equipment will be acceptable only if it is of equal quality and approved by the District before purchase

It will be the responsibility of the contractor to conform to local regulations and obtain any necessary permits in the performance of these specifications and comply with all District drawings and documents in their entirety

inspection service will be provided by the District. Materials and workmanship shall at all times be open to inspection by the District Inspector.

(Inspection schedules are subject to a minimum 48 hour advance notice and are by appointment only – La Quinta (760) 398-5828; Imperial (760) 482-3300).

Any work failed/rejected by the District Inspector shall be corrected in a matter satisfactory to the District Inspector prior to the continuation of work. The District Inspector shall have final authority to pass, fail or approve corrected measures. Work will not continue until the District Inspector has inspected and passed the electrical system.

The required material and work includes furnishing and installing the following

- 1 Excavations, trenching and backfills
- 2. Conduit encasement, and concrete requirements
- 3 Boring
- 4. Underground conduits, ducts, conduit fittings, and sealing compound
- 5. Transformer pads, junction pads, precast vaults, juriction sleeves
- Marking tape over conduit
- 7 Secondary puliboxes.
- 8 Copperweld ground rods 5/8" x 10"
- 9 Guard posts
- 10 Pulling rope
- 11 Stub outs
- 12. Stopes
- 13. Retaining Walls
- 14 Clearances

All work shall follow the best modern practice both in the manufacturer and the installation of underground facilities. All work shall be done by artisans skilled in their various trades.

All rights-of-way determined necessary to extend electrical service to any project shall be the sole responsibility of the customer to acquire. For information regarding all real estate and right-of-way matters please contact the IID Real Estate Section. Imperial Valley (760) 339-9239 or Coachella Valley (760) 391-5960.

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Reference Tables:

- Table 1 Communicated Casing and Cendult Sizes Section 3 Boring
- Table 2 Condon Index Section 4 Underground Conduits
- Table 3 Sonduit Rope/Measured Rope Requirements Section 10 Pulling rope
- Table 4 Conduit Radius Index (Horizontal) Section 4 Underground Conduits
- Table 5 Conduit Riser Sweep Radius Jodes (Vertical) Section 4 Underground Conduits
- Table 6 Stub Out Marker Section 11 Stub outs
- Table 7 Encasement Criteria Section 2 Conduit encasement
- Table 8 Retaining Wall Slope Elevations Section 13 Retaining Walls

Drawing Reference:

- Drawing 1 Vault side view, Conduit reduction Section 4 Underground Conduits
- Drawing / Stub out detail Section 11 Stub outs
- Drawing & Retaining Wall, stope falling toward ItO equipment Section 12A Slope
- Drawing 4 Retaining Well, slope falling away from IID equipment Section 12B Slope
- Drawing 5 Typical Boring 2 5" Detail Section 3 Boring
- Drawing 6 Typical Boring 2 8' Detail Section 3 Boring
- Drawing ? Typical Boting 4 6" Detail Section 3 Boring
- Drawing 8 Typical Boring 6 6' Detail Section 3 Boring

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1. Excavations, trenching and backfills.

- A lit shall be the responsibility of the installation contractor to establish all grades (rough and final), bench marks, properly corners, lies, fence lines wails, property lines or other field references as required to install and verify the installation and location of power facilities.
- B It shall be the responsibility of the installation contractor to establish the location and depth of all existing power system facilities and foreign substructures within the work area. The contractor shall also call the USA dig alert and keep up to date the one call ticket.
- Contractor/Developer shall review plans as soon as received from IID for possible conflicts or problems on locations of IID structures. Any revisions to original IID design will require additional engineering time and might cause additional delays to the project. It is the responsibility of the contractor to contact the appropriate IID Customer Service Project Manager.
- The installation contractor shall bear the responsibility for returning all excavated areas to at least 90% compaction. All testing to ensure 90% compaction and restoration of the work area to its former condition is the sola responsibility of the installation contractor. (**Refer to 2F**)
- Excavation for vaults, junction pads, secondary pullboxes and conduits shalf be made to the proper depth (Refer to 4B). After proper installation and inspection have been completed compacted backfill shall be made to the finished level. All surplus excavation shall be disposed of in a satisfactory marrier.
- F Street light circuits, CATV, and telephone may be installed in the same trench; however, their relative position must be verified with each serving agency and installed to their specifications (Refer to Standard 100.41)
- The contractor shall take due caution to keep from damaging other utility systems that have been installed and shall collaborate with other utilities that may be doing work in the same area (**Refer to 1B**).
- H All other utilities shall maintain no less than a 12" clearance from substructures and underground equipment. (Refer to Standard 100.41) (Refer to 2K)
- Joint utility trench will be a minimum of 24" wide to ensure adequate separation between Power and Gas facilities. (Refer to Standard 100.41)
- J. Whenever possible Gas facilities will occupy the opposite side of the trench and be 12" above the power facilities. (Refer to Standard 100.41) (Refer to 1H)

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Excavations, trenching and backfills Continued:

- Developer/contractor will be responsible for coordination of inspections while trench has IID utilities exposed. (Refer to Joint Trench Indemnity Agreement IID-700E (6-07))(Inspection schedules are subject to a minimum 48 hour advance notice and are by appointment only La Quinta (760) 398-5828; Imperial (760) 482-3300).
- The developer shall be responsible for filling out and signing IID form 700E 6-07 Joint Trench Indemnity Agreement, contact the appropriate IID Customer Service Project Manager. (Refer to Joint Trench Indemnity Agreement IID-700E 6-07)

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2. Conduit encasement and concrete requirements:

- All Encasement of power ducts will require an on-site inspector at the time of encasement. (Inspection schedules are subject to a minimum of 48 hour advance notice and by appointment only. La Quinta (760) 398-5828; Imperial (760) 482-3300.)
- Ine term encasement as used herein shall mean a 3° envelope around all sides of one or more ducts.
- C. Utilize plastic spacers that provide 3" separation. Plastic spacers shall be used on conduit runs to be concrete encased both as single or banked installations and on duct banks not encased; spacers are placed every sinfect (6"). (Refer to Table 7)
- D. Concrete encasement of conduits at street crossings shall be a three (3) sack sand sturry or 1800 2000 ps; mix
- Backfills at street crossings maybe a three (3) sack sand slurry from top of encasement to street sub-grade. If the contractor utilizes any quick cure chemical product additives to the concrete the contractor shall take full responsibility for concrete quality. (Refer to 2D), (Refer to 2H), (Refer to Iable 7)
- F. Backfills at street crossings that are other than a three (3) sack sand sturry backfill shall observe the following.
 - and compacting over concrete encased conduit
 - b. The confractor is responsible to ensure a compaction of 90%
 - The contractor assumes the responsibility of providing the IID with the compaction test verification. (Refer to 1D), (Refer to 1G)
- Backfill Material when used above concrete encasement shall be a standard roadbase material properly compacted, unless otherwise specified on the drawings or by the IID Customer Service Project Manager. (Refer to 1D), (Refer to 1F)
- IID concrete encasement, backfill, etc. requirements will be followed unless the City, County, State Agency. Property Owners, or Authority having jurisdiction has requirements that are more strict, the highest requirements will be followed.
- Encasement shall be sand slurry below streets, parking lots, and commercial driveways. (Refer to Trench Detail standard 100.3, Page 42). (Refer to Table 7)
- J. Concrete encasement for all off entocations shall be no less than a 2 sack or 1500 psi sand sturry mov.

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Conduit encasement, and concrete requirements Continued:

- The layers between the adjoining utilities will be in compliance with G.O. 128 and have a minimum of 12" separation. That separation may be reduced with conducted encasement. (Refer to 1H). (Refer to Standard 100.41)
- L. Conduit encasement criteria is as follows in Table 7

	ENCASEMENT CRITER	RIA Table 7	
Feeder Type	Number of Runs	Size	Amperage
Back bone	2 or more	6	600 Amp
Lateral	4 or more	5	200 Amr

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Underground conduits, ducts, conduit fittings, and sealing compound:

- A Conduit one shall not cross each other when on the same level and/or plane
- B Primary conduits chall be builed a minimum depth of four feet (4) Secondary and service conduits shall be builed a minimum depth of two and one half feet (2½)
- C. Sizes and arrangements of conduits shall be as shown on the drawings.
- O. Where the external diameter of the conduit is smaller than the diameter of the opening in the vault wall. The reduction in conduit diameter shall take place two feet (2) from the external wall of the vault. Refer to Drawing # 1

Refer to Drawing 1 Vault side view, conduit reduction

- The maximum obtainable separation between power facilities and all other substructures shall be maintained at all times. 12" minimum when paralleling and 12" minimum when crossing encased in concrete (12" minimum refers to compacted backfill)
- F Conduit shall be. PVC heavy wall schedule 40 for below ground installation and schedule 80 for above ground installation. (See conduit index table 2).
- G. Conduit sweeps in duct runs shall not have less than a 12-8" horizontal sadius unless shown otherwise on the plans. (See radius index (horizontal) table 4)
- His Conduit sweeps in vertical runs (pole risers and equipment risers) shall be installed in accordance with table 5.
- 1. All 2", 3" service and/or secondary conduit (vertical) assess which enter buildings, service panets, secondary boxes, transformer pads, meter pedestals, etc., shall have a minimum 2'-0" radius, see riser sweep radius index (vertical) table 5.
- All 4" primary conduit (vertical) risers which enter transformer pads primary metering panels, underground switch gear panels and pole risers shall have a 4'-0" Radius for 4" duct, see riser sweep radius index (vertical) table 5
- All 5". 6" primary conduit risers which enter transformer pads, primary metering panels, underground switch gear panels and pole risers, shall have a minimum of 4-6" radius for 5" duct, and 5'-0" radius for 6" duct, see riser sweep radius index (vertical) table 5. Contact your IID Customer. Service Project Manager for further instructions or questions.

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Underground conduits, ducts, conduit fittings, and sealing compound continued:

- The installation contractor shall mandrel all conduit runs to and inclining service auct, IID shall provide the mandrel and inspector. (Inspection schedules are subject to a minimum 48 hour advance notice and are by appointment only La Quinta (760) 398-5828; Imperial (760) 482-3300).
- The installation of the conduit system will be conducted by a single contractor or other entity to give the project continuity, reducing the passibility of deviations from the 3.0 128 regulations.

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TABLES.

Table 2 (Conduit Index)

			COMPU	T INDEX Table	e 12			
CONDUCTOR	STRAIGHT BELOW BROUND	SWEEPS HORIZONTAL BELOW GROUND	POLE RISER SWEEP	STRAIGHT ABGVE GROUND	COURT	PAD	SCONDARY BOXES	MLIER FANELS
1"	SCH 40	SCH 40	SCH 80	SCH 80	SCH 40	SCH 40	SCH 40	SCH 40
2	SCH 40	SCH 46	SCH 80	SCH 80	SCH 40	SCH 40	SCH 40	SCH 40
3"	SCH 40	SCH 40	5CH 80	SCH 80	SCH 40	SCH 40	SCH 40	SCH 40
4"	SCH 40	SCH 40	SCH 80	SCH 80	SCH 40	SCH 40	SCH 40	SCH 40
5"	5CH 40	SCH 40	SCH 80	SCH 80	SCH 40	SCH 40	SCH 40	SCH 40
6"	SCH 40	SCH 40	SCH 80	SCH 80	SCH 40	SCH 40	3CH 40	SCH 40

Table 4 (Conduit Radius Index -Horizontal-)
CONDUIT RADIUS INDEX (HORIZONTAL) Table 4

C PA 1 2 PA 3 2 PA P PA 2 A		Market Strategy and the second	
CONDUIT DIA.	RADIUS	CONDUCTOR SIZE	PVC SCHEDULE
42	12.5' Radius	1-1/0 Conductor	40
5*	2.5' Radius	3-1/0 Conductors	40
Ĝ"	25' Radius Typical	3-750 MCM Conductors	40
B .	&0 Radius as Specified	3-750 MCM Conductors	40

Table 5 (Riser Sweep Radius -Vertical-)

manager commercial commence of the commence of	RI	SER SWEEP RA	DIUS INDEX (VEI	RTICAL) TABLE	5	
SECONDARY	Radius	Pole Riser	Equip. Riser	Trans. Pad	Secondary	Meter Panels
Conduit Dia.		PVC SCH	PVC SCH	PVC SCH	PVC SCH	PVC SCH
2"	24" Radius	NIA	40	40	40	40
3"	36" Radius	69	40	40	40	40
4*	36" 18 " Radios	80	40	4 0 .	40	40
PRIMARY	. Radius	Pole Riser	Equip Riser	Trans. Pad	Secondary	Meter Panels
Conduit Dia.		PVC SCH	PVC SCH	PVC SCH	PVC SCH	PVC SCH
	48" Radius	80	40	40	NA	N/A
er y 1	48″-60″ ₹adius	80	10	40	N/A	NA
ű"	60 Radius	80	N/A	NIA	N/A	NIA

Contact your IIO Customer Service Project Manager for Instructions. NIA - Not Applicable

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5. Transformer pads, junction pads, precast vaults, junction sleeves

- A. All conduit entering transformer pads shall be cut off 0" to 1" (inch) from above the top of the pad
- B All conduit entering secondary pull to ses or splice bases brian be deterff." it. 9" (inches) above the pea gravel.
- Single phase transformer pads installed adjacent to reads shall have the primary conduits installed closest to the road, and secondary conduits installed away from the road. (Contact the appropriate IID Customer Service Project Manager)
- D Transformer pads, pull boxes, manholes valuts, and switch pad installations shall be installed 3" above final grade (where not installed along sidewalks) and flush with final sidewalk for those types of installations. In areas with sloping contours greater than ¼" to the foot, the top edge shall be set as shown below highest point of slope. (In no case shall there be more than a of slope in 1" (foot) of horizontal measurement.)
- E. Transformer Pad inspection, when the contractor receives or installs a Transformer Pad that has a continuous crack across three sides (side, top and inside window) this pad will be rejected by the IID inspector. When a crack is non-continuous and the crack exceeds 1/32° (-032) wide, the contractor may make appropriate repairs to the crack with a manufacture approved epoxy equal to CIA-GEL 7000. The contractor will inform the IIEI inspector of any crack repair to be made before repair is made.
- Fig. Contractor is responsible for permanent and waterproof markings on all interior vault knockouts, any and all conduits conduit runs, and stob outs, with the conduit number corresponding to the number shown on the plans.
- G. Contractor shall seal or grout around seams, lid sections, and ducts entering valuits and pullboxes to prevent soil and water entering at joints or openings.
- H. Where the external diameter of the conduit is smaller than the diameter of the opening in the vault wall, the reduction in conduit diameter shall take place two feet (2') from the external wall of the vacate Refer to Section 4D Refer to Drawing # 1
- Contractor/Developer shall keep all debris away from IID's transformer pads primary vaults, secondary pull boxes, and other IID equipment to give IID personnel access during the duration of the project.

CSP/NOTIFICATION +
SERVICE ORDER #
SHEET 07

<u>Transformer pads, junction pads, precast vaults, junction sleeves</u> Continued:

- The district will provide an underground energy inspector during the actual installation of conduit and vault systems. Any request for inspection end project must be scheduled with the IID 24 hours prior to actual need. Failure on the part of the owner(s) developer(s) or contractor to schedule and/or an inspection and approval for any portion of the lighting or underground power systems, may result in the total rejection of the newly installed systems. (Inspection schedules are subject to a minimum 48 hour advance notice and are by appointment only La Quinta (760) 398-5828; Imperial (760) 482-3300).
- K. No other utility will be allowed to occupy the area under a fransformer pag-
- L. Commercial Transformer Pads will not be installed until compaction report has been received and reviewed by IID inspector.
- M Commercial Transformer Pad compaction will be performed 2 beyond pad size on Lail sides no haldscaping will be allowed performed sprinkled systems with in the compacted area.

CSP/NOTIFICATION /
SERVICE ORDER #
SHEET OF

6. Marking tape over conduit

- A. Contractor shall install 2" line quard iff tape red in color with black lettering CAUTION BURIED ELECTRIC LINE BELLOW (See Standard 100.5)
- B Contractor will install a caution (app. 12" above the power sucts. (See Standard 100.5)

7. Secondary pullbox:

Secondary pullboxes must be as shown on the disweras

Surface secondary pulibox utilised in all Imperial Imga; on District secondary construction. Reference Standard 181.1 - 181.11

8 Copperweld ground rods 5/8" x 10":

- A To comply with General Order 1.8 rule 21.5A, the contractor is required to provide and install, a minimum of two (2) 5/8" x 10" Copperweld ground rode shall be installed at each transformer pad and junction pad, and primary vault. (See Standards in 8C for detail)
- B The developer will be responsible for driving any and all ground rods in the system that is a joint trench. This will be predetermined and completed before IID construction crews arrive on the job
- C French and pad grounding
 Single phase transformer reference Standard 190.2-190.21
 Three phase transformer reference Standard 190.3-190.31
 Single phase sector reference Standard 190.4-190.41
 Three phase sector reference Standard 190.5-190.51

9. Guard posts:

A. Guard posts shall be 4" diameter pipe schedule 40 black cold rolled steel painted high visibility sellow.

See Standard 181.6 for soncrete fill/foundation requirements and typical location of posts around his equipment.

CSP/NOTIFICATION :	
SERVICE ORDER #	spiratelelikususianen et er musse i
enery 1 -	radiotec motivaciones a respectados en 19-19
SHELL OF	

10. Pulling rope:

 A To all duct runs, the installation contractor is to furnish and install the following:

Table 3 (Conduit Rope/Measured Rope Requirements for Primary Pulls)

CONDUIT ROPE/MEASURED ROPE REQUIREMENTS PRIMARY PULLS

the second of th	A A A S. I. Brown Land Control of the State of State of the State of t	P. LAW OF PAIL AND SARPHING A D. D. L. LEIGHAG.	717 1 WWW.W
Rope Type	Conduit Length	Conduit which will contain Wire	Spare Conduits
a) Polyester %"	501' 1000'	No Splices	Splices Ok
b) Measuri ng Rope 分"	1' 1000	No Splices	Splices Ck

a) Polyester rope usually yellow in color is acceptable

b) Measuring rope will have one foot (1') increments clearly marked IID representative/inspector has final decision on type of rope to be utilized in conduit pulls

Spare conduits may be filled with polyester rope with splices. If pulling wire at a later date (any time after construction) Contractor is responsible and required to pull in new rope that has no splices. N/A = Not applicable.

11. Stub outs:

Contractor shall obtain and install stub out markers comparable to the stub out-marker indicated in Table 6.

Stubout conduit shall be a minimum of 10°. Refer to the job drawing for specific Stubout lengths.

Refer to Drawing 2 Stub out Detail

Stub out Marker

56" x 4.25

Table 6 (Stub Out Marker)

	STUB OUT MARKER Tabl	le 6
MANUFACTURE	PHONE NUMBER	PART NUMBER
to a contract of the second contract of the s	The state of the s	FOST-LX-1A-66R
ELECTROMARK	800-29 5- 8247 ext. 222	MP065-G-RE-B41
))	IMP066-G-RE-RB1



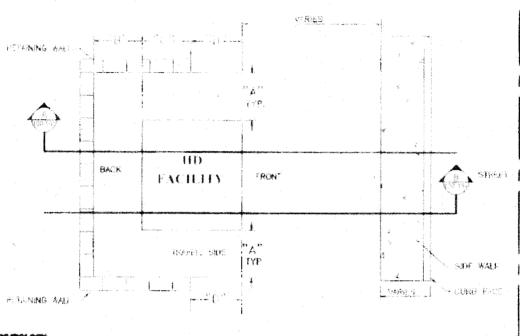
Front View Top Portion



Back View Top **Portion**

CSP/NOTIFICATION *
SERVICE ORDER #

Retaining Walls Continued:



SOMOLOGY

(3)

CROSS SECTION

PLAN VIEW N.J.S

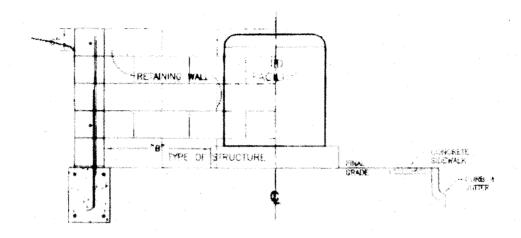
THE RETAINING WALL

CYPE OF STRUCTURE	* X	160	47.00	"()"
5' X 6' PRIMARY SMALL PULLBOX		- 7	74	-72
X 6 PRIMARY MEDIUM PULLBOX	ŝ		. 7:	-
" N 8'-6" PRIMARY VALLET ATTHOUT CABINEL.	7 ·	3	3	
STANGO PRIMARY VALLO WILLICALINET	Ś			3
ALL TRANSFORMER PAD ISINGLE & TUREL PHASE	3.		VARIES	VARIE

Notes.

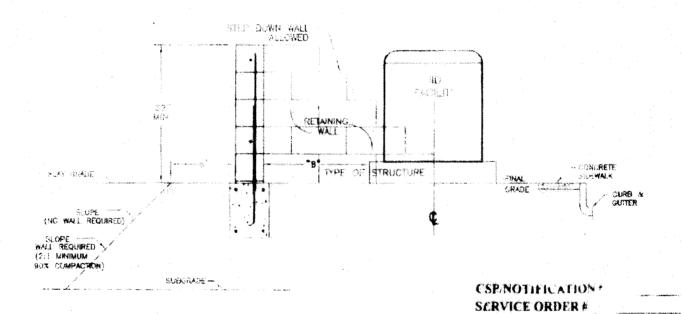
- The chart convey inclinates the space with a very so specific and of the matter of equipment soft by with a radium, with
- Retaining stall sides will end at the context of all two former gods (550) plants serve
 - Relating Standard 1000 Standb. 153 for Remining Wall construction.

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SERVICE	ORDER	F
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3.4

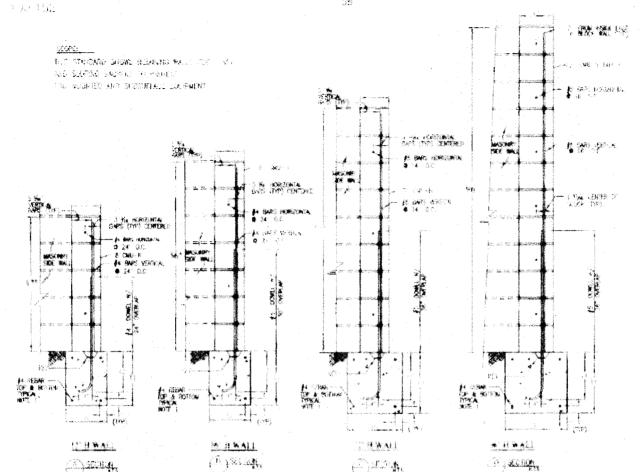
A RETAINING WALL.



B REVERSE SUBGRADE RETAINING WALL

RETAINING WALL SECTIONS CROSS SECTION ELEVATIONS	OTS 18/63
N.T.S. REV 0 04-20-00 M. GAPPINGER W. T. KING T. SCALE RSV. No. GATE CHARBMAN/STANGARDS APPROVED	

SHEET 20



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WITES:

- 1) HORIZONIA SICH WAR ENG SHALL IK PRICED VERHALIY IN THE TOOPIN AS DEVICE.
- 2) SLOPE OF REMARKS SPACE ROPOSCOPIA, PUBLIC MERCHAN AND 1 TO
- 3) CONSULT TOOM, FOR LINE OF PRIMENT FOR PRIMETS

" CSPNOTIFICATION SERVICE ORDER #

SHEET_2

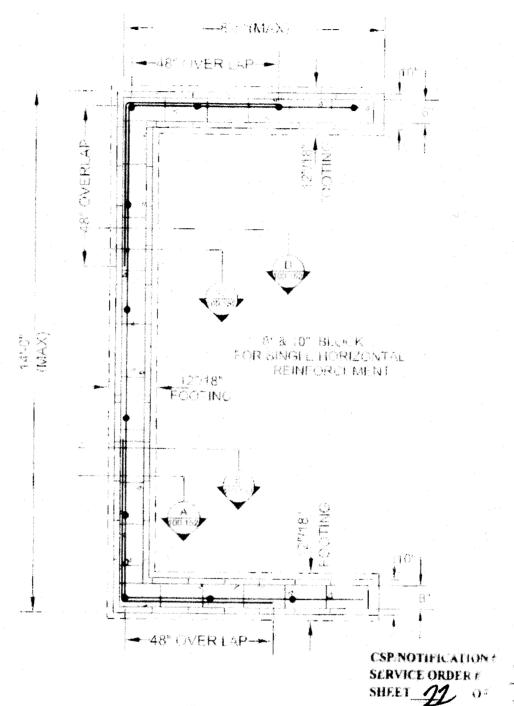


TO UNIVERSELISE DETERMINENT STANDARDS RETAINING WALL SECTIONS FOUNDATION AND CROSS SECTION ELEVATIONS AND CONTRACTORS NOTES

R GAPPINGERAL IS 04-09 BEV 0

CHARMAN/STANDARDS DATE BY NO

T. KING 752FOVED



<u>FOUNDATION</u> PLAN

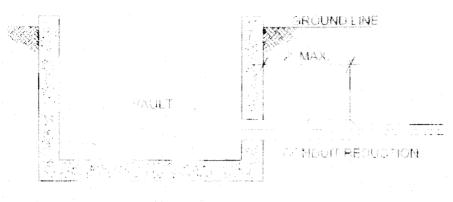
RETAINING WALL SECTIONS
FOUNDATION PLAN

N.T.S. REV II OM 09-00 N CAPFINGER NESSAE BEV NO 1141E CHAPMAN/STANDARDS





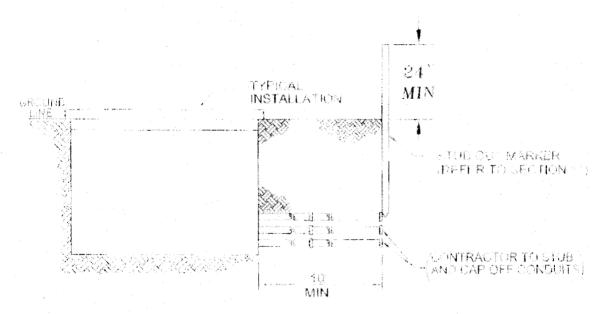
Drawings.



SIDE VIEW

Scale N. Lis.

Drawing 1 \ apti side view an abilit reduction. Refer to section 40



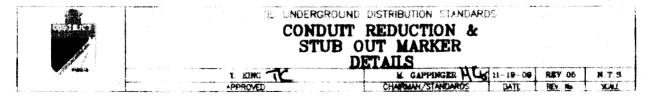
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NOTES.

- IT ENCASEMENT STOPS 10' FROM VAULT.
- 2. NO CONCRETE TO BE POURED WITHIN 10" OF VAULT CONDUCT ENTRANCE CREXIT WAS SERVICE ORDER #

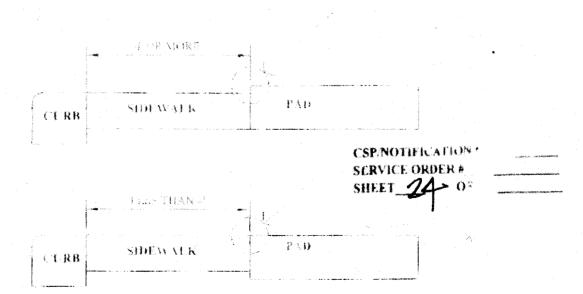
CSP NOTIFICATION !

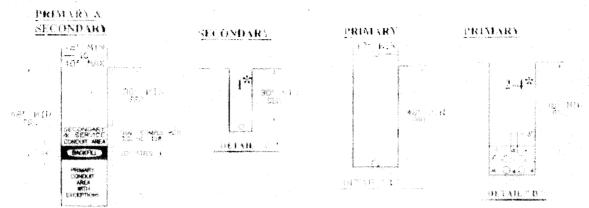
Drawing 2: Stub out detail. Section 11 Stub. a.s. Scale NTS



14. Clearances:

- Clearances shall be negatived from all one or ground agrees. Refer to Stones and Cities.
- B. If headeners or complified at the size record content of a destructorial build-meaning equipment are RD pullbowes above and then become path one can approximation installed within the expect of the equation of the order three boots in continuous for marking around pads and larger substructures to the equation of additive equipment as one will be a content of the property of the equation of th
 - For the species we take up all and provides we also remains this, as idings, the corner shall not be keep than ten 6 or of " breatheast makes and doors.
 - "Noncombustible" Building surfaces or materials approved by the uniform hailding code as having a uninimum the rating one hour include but are collimated to: Steel studded drywall, steel studged stucco or other students on steel and thaving minimum (as a neglective one hour back. List, (ife, concrete, usue steel, and stone. We equipment requires three tool (3) clearance.
 - "Combustible" Building surfacts or materials include that are not imised at: Whit studded succeound mood studded drywall. IID equipment requests door from (N) cleanore.
- Pass are jurnated in the sidewalks provided the walk is wrath than a feet (4') nor a finding the curb. A four foot (4') useable walkway (not including anti) mass of the curb for wheelehair access. Do not install in trails such as bike, logging walking, equestrian, etc. (Top of transformer pad when installed in sidewalk when less than four feet (4') must be level with finished sidewalk to eliminate tripping bazard.)

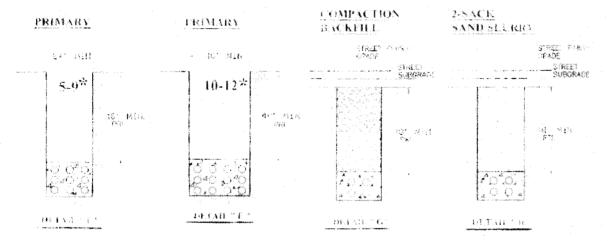




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GENERAL INSTALLATION NOTES

CONTRACT REPORTED AND THE CORPORATION

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- 2. SPORMET ALSO SENTE SEE CONSERVATION OF VERY ALSO PROCESS.
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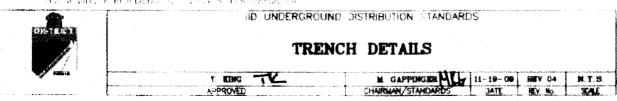
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THE SERVICE SERVICES

CSP/NOTIFICATION *
SERVICE ORDER *
SHEET _______OF

CONTROL MAIN CONTROL MERCANDON CONTROL STATE OF THE STATE



CURR GUTTER SIDEWALK PARKWAY

KIND & BITTER

WORKING SPACE AREA, FIREL DE AND CHRISTAUCHONS NOT ALLOWED IN THIS AREA

-MACSFORMES P

PERMAND LABOR

TOURS OF THE PROPERTY.

CUCS & WITE

CURR GUTTER PARKWAY SIDEWALK

NOTES

- Any/All instantations of IIO functities with any public street right of early shall be, done who electromagnized penalty from the Jarisdiction agency. Let Ory. Colonty, also
- Any (a) installations of the Contract within a reclimated Fusion Uthic, beginned (PULL) show he made in necessariate with PLOE, as shown on and (a) Filesion) map, i.e. 10° PLOE, adjacent to public street right-of way, etc...
- Any fall installations of lift localities within private property shall be done via Assument or other self-factory authorization from vested owner of said property.

Figure consumt 40 Near Estate decimal for confidation can remark the observe of (750)3.59 ± 8.239 .

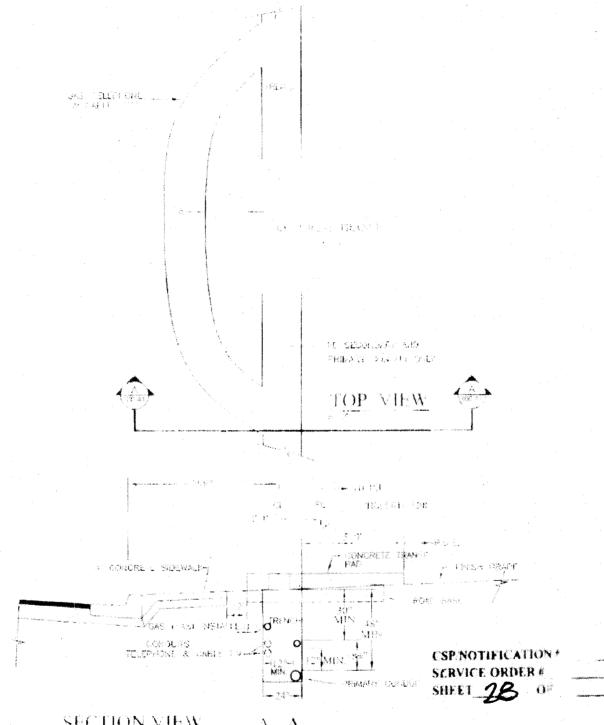
HD UNDERGROUND DISTRIBUTION STANDARDS

IID FACILITY INSTALLATION

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L = 20°	REV	03	1.1	19	00	M GAPPERGER MYD	
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SCALE	NEV	Mc	1	MT	F	CHARMAN/STANDARDS	

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CSPNOTIFICATION F SERVICE ORDER # SHEET 27 OF

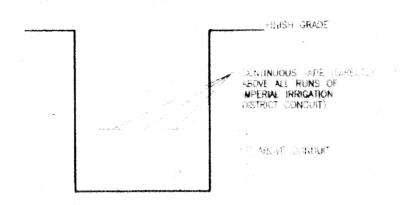


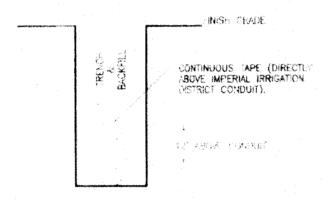
SECTION VIEW



	IID UNDERGROUND DISTRIBUTION STANDARDS
JOINT	UTILITY (GAS INCLUDED)-TRENCH DETAIL,
	CURB, GUTTER, SIDEWALK,
	10FT. PARKWAY WITH 10 FT. P.U.E.
and a second arguest to over the control of the con	T. KING TE M. GAPPROUND WELL OR OR MELL OR

18-4-4





TYPILAL TRENCH DETAIL
W/LINEGUARD HETAPF OR EQUAL

NOTE:

F. INSTALL LINE GUARD IN TAPE (RED. MINIMUM 2" WIDE) INTERPRETATION: BURIED ELECTRIC LINE BELOW".

TAPE TO BE FURNISHED & INSTALLED BY CONTRACTOR.

SCRVICE ORDER 6
SHEET 29

CSP.NOTIFICATION :

2 TAPE INSTALLED 12" ABOVE HIGHEST PRIMARY OR SECONDARY IMPERIAL IRRIGATION DISTRICT CONDUIT TRENCH.

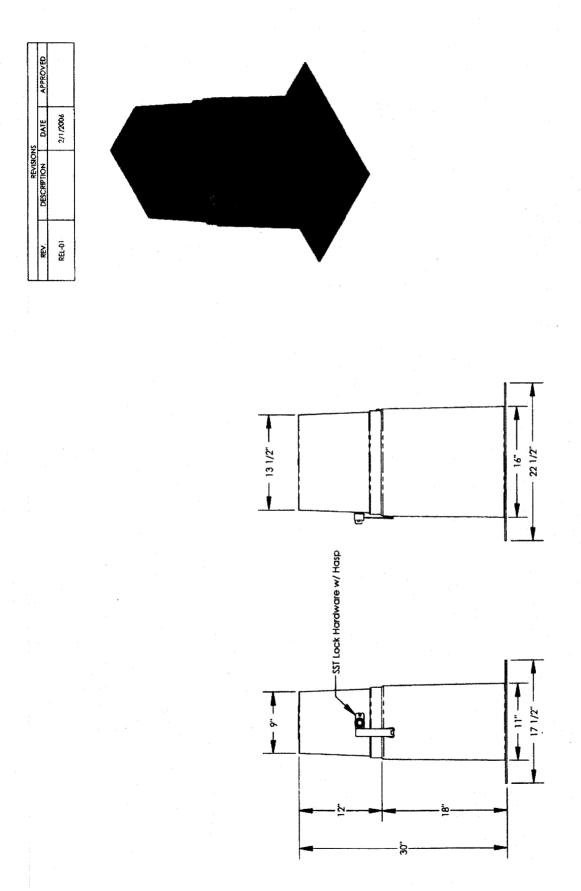
. IID UNDERGROUND DISTRIBUTION STANDARDS
LINE GUARD III TAPE
7 MING TIC N. GAPPENGER ALL 12-07-00 BEV 04 LATE APPROVED SHARMAR/STANDARDS DATE BEV. No. SCALE

CSP.NOTIFICATION! SCRVICE ORDER SHEET_20

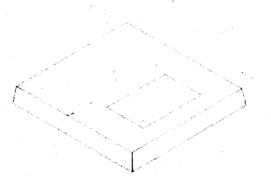


ID UNDERGROUND DISTRIBUTION STANDARDS

SECONDARY PULLBOX DETAIL DRAWING CONNECTORS ABOVE GROUND LEVEL 1. EMBC TV M GAPPEIGER WYL 04-20-10



Stoot: 31



SERVICE ORDER #______SHEET_30F

DISTRET
A

PRECAST CONCRETE PAD DETAIL FOR SINGLE-PHASE TRANSFORMER
15KVA TO 167KVA

S

T. KING K GAPPINGER VIS 03-18-07 BEV 06 N.T.S.
APPROVED CHARMAN/STANDARDS DATE REV. No. 32AE

GUNSTRUCTION NOTES

- THA TRECAST CONCRETE PART SHALL BE USED
- I APPROVED MAJEJERCHURERS AND STRUCTURES.

SINGLE	PHASE 15KV 167	KV TRANSPORMER	PAD IMPERIAL
MANUFACTURER	PHONE No.	STRUCTURE No	DIMENSIONS FRONT/SIDE THICKNESS
HUS FERSON	(760)352-4341	3401 PLR	44(T) × 46(S) × 6(F)
	1-800-257-6100	PG4446-76-22-	44 (F) x 46 (S) 2 6 (5)
0.0 CAS0 F	1-800-626-1860	4446-06TF	4678) 2 671)
U.S. CONCALIE	(619)41 3 · U 51v	5421ATPIII)	45 (1 x 275) * E(8)

(F) without (F) will the classical

- SCONTINUE TO PROVIDE TWO 5/2 VIOL COPPERWELD CARLORS PAGE OF LAS INTO ARCH. OF CONTRACTOR.
- I SIZE AND NUMBER OF CONDUITS IN EACH PAD TO BE AS SHOWN ON CONDUCT LAYOUT
- S. ANCHORAGE TO BE SET BY THE WATER BANSFORDER IS HISTALLES
- 6. CONTRACTOR SHALL PROVIDE & INSTALL 6" OF ROADBASE MATERIAL ENDERNEATH TOMISCORNER PAD, AND COMPACE TRU, ROADBASE UNDERNEATH TRANSFERMER FAD TO A MINIMUM COMPACTION OF SOM AND A MAXIMUM OF BOXA SEE STANDARD (30)
- THEORETICS IN THE PROPERTY OF SECURITIES OF SECURITIES OF SECURITIES.

CSP/NOTIFICATION & SERVICE ORDER # SHEET 23

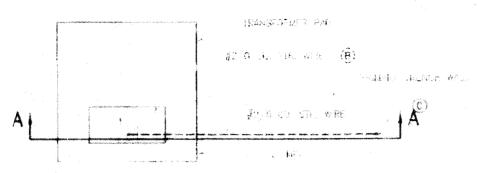
II EMPERGROUN DISTRIBUTION STANDARDS PRECAST CONCRETE PAD DETAIL FOR SINGLE-PHASE TRANSFORMER 15KVA TO 167KVA L SAPPINGER CHARMAN/STANDARDS

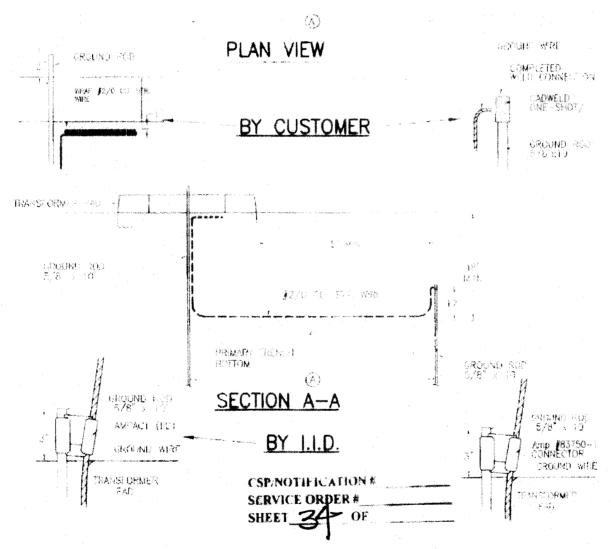
08-04-09

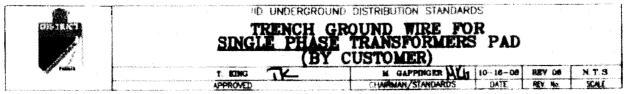
T. GHE Virginia (1)



IT I IT THE WILL SPACE YOR DROUGHT ROD.







CONSTRUCTION NOTES

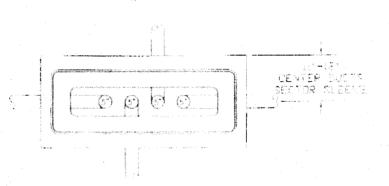
(C) LOCATE GROUND ROOS SO THEY DO NOT TOUCH CONDUCTS.

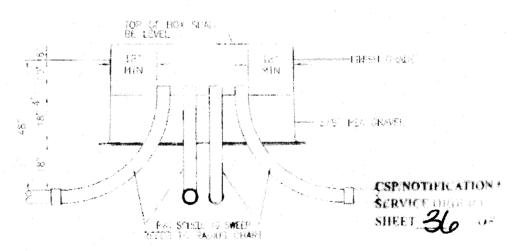
CSP/NOTIFICATION # SERVICE ORDER # SHITET 35 VE

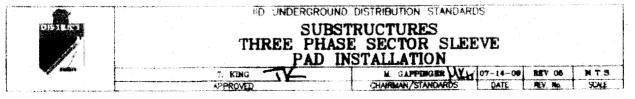
TRENCH GROUND WIRE FOR
SINGLE PHASE TRANSFORMERS PAD 50KVA TO 167KVA
(BY CUSTOMER)

T.S. REV 04 12-10-06 N. GAPPINGER NO 1 PPROVED









- CONSTRUCTION NOTES:

 COMPACT ALL SECRETLE FOR EXCAMPION UNDER SECTOR
 SELECTION TO SECTION SELECTION CHERRISE DON FAST
 INSIDE LABOR.
- 2 CONTRACTOR SHALL PROVIDE & INSTALL 3/8° PEX-CRAYO MATERIAL UNCORNEATH COTECT SLEEVE NOT 16 INSTALLUF 60 FOR SUFFORT AND CRANACE
- I CONTRACTOR IN FRONTON TWO 5/8 × 18 CONTRAVALD GROUND ROOS FOR SECOND SECTION (MSALE) IN CONTRACTOR.
- [4] SZE AND HOMBYR OF COMBURS, WEYACO SELECT - SERRYL II DE AN ANWENDE DE DORDES LETTE
- TO COMPORE MELTO TO SE THE HOLD OF THE RESIDER BY
- U ALL PRIMARY SACEPS TO US FOR SCHOOLS 36° DADIUS
- 7 GUARD POSES MAY BE RECHIBED AT TOSCEPETION OF 1 THE REPREDIOR
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CSP/NOTIFICATION / SCRVICE ORDER # SHEET 37

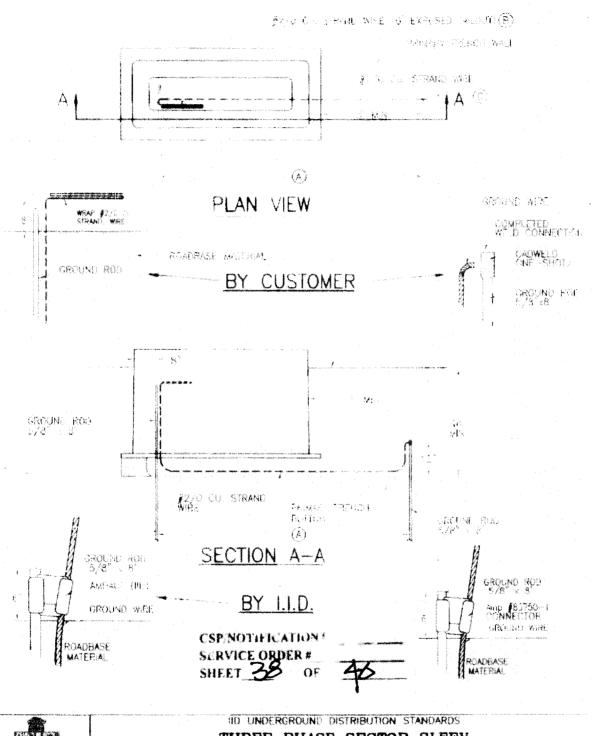
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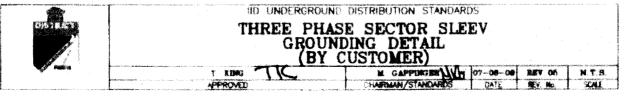
SUBSTRUCTURES
THREE PHASE SECTOR SLEEVE

			PAD INSTALL	AIIVN
NTS	REV CO	07-08-09	K GAPPENGER	T IDE TL
SCALE	HEV. No.	DATE	CHARMAN/STANDAROS"	APPROVED



5 2 8" ALLOWED SPACE FOR SHIP PORE





CONSTRUCTION MOTES:

- (A) JROUND PLUS TO HAVE A FIRST MARRIAGN SEPARATION
- (B) WRAP 6" OF WIRE (EXPOSED TAILED!)
- (C) LOCATE GROUND RODS SO THEY DO NOT TOUCH CONDUITS GENERAL GROVER 178 RESEMBLES CROWN RODS TO BE DRIVEN

BULL OF BUILDING

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Man	₹ 7 1	¢ଞ୍ଜରିଖନ୍ୟର∿	Scoem (40)	PAGE 11:
		SECTOR SLEAVE SEE STANDARD 171.2		
2		CADWELD, ONE-SHUT/ April 183750-1 CONNECTOR	4000 3386	
ja samu J	20	WIRE - DOPPER \$2/0 STRAND, SOFT DRAWN BASE	40004222	
14	1 2	CROSUND ROD, 5/8" C. &. COPPERWELD	4000.3815	

NOTES:

THE SERVICE FIGURES IS ON ERRORD PROPERY, AND BESONGS TO THE CITERARY, SECTION THE SECTION TO

CSP.NOTATICATION *
SCRVICE ORDER *
SHEET 39 08



THREE PHASE SECTOR SLEEVE
GROUNDING DETAIL
(BY CUSTOMER)

